

PROJECT INFORMATION

Project Title	Heart K Forest Health Project
Brief Description	<p>The Feather River Resource Conservation District (FR-RCD) and Feather River Land Trust (FRLT) are partnering to restore the Heart K Ranch forest and riparian habitats.</p> <p>This project will restore 100-120 acres of oak woodland and pine forest by handthinning conifers less than 14 inches diameter at breast height (DBH) to increase sunlight for black oaks, provide firewood to low income residents, and reduce threat of catastrophic fire. The work will complement fuels reduction efforts on immediately adjacent lands managed by the Plumas National Forest (PNF) (200 acres) and private landowners (160 acres).</p> <p>The project will also improve water quality and riparian habitat on Indian Creek, a tributary of the North Fork of the Feather River at the headwaters of the State Water Project. This project will plant cottonwood and willow along ¼-mile of the creek to stabilize damaged areas, provide resources for traditional uses, provide wildlife habitat, and improve water quality. Restoring riparian habitat along Indian Creek will compliment other efforts in the Feather River Watershed to improve water quality.</p> <p>Mountain Maidu historically influenced the ecology of the Heart K Ranch by managing forests, riparian areas, and meadows with fire. Traditional practices resulted in increased diversity and reduced potential for catastrophic wildfire. To restore indigenous management on the Heart K Ranch, local Genesee Valley Maidu and the Greenville Rancheria Wildland Fire Crew will be employed in restoration efforts.</p>
Total Requested Amount	232,750.00
Other Fund Proposed	167,000.00
Total Project Cost	399,750.00
Project Category	Site Improvement/Restoration
Project Area/Size	100
Project Area Type	Acres

Have you submitted to SNC this fiscal year?	No
Is this application related to other SNC funding?	No

Project Results
Restoration

Project Purpose	Project Purpose Percent

County
Plumas

Sub Region
North Central

PROJECT CONTACT INFORMATION

Name	Mr. Phil Noia,
Title	Board President
Organization	Feather River Resource Conservation District
Primary Address	Feather River Resource Conservation District, PO Box 3562, , Quincy, CA, 95971
Primary Phone/Fax	530-283-7512 Ext.
Primary Email	frrcd@hotmail.com

PROJECT LOCATION INFORMATION

Project Location

Address:	Heart K Ranch, Beckwourth Genesee Road, , Taylorsville, CA, 95983
United States	
Water Agency:	Indian Valley Community Services District
Latitude:	40.067957
Longitude:	-120.69005
Congressional District:	N/A
Senate:	N/A
Assembly:	N/A
Within City Limits:	No
City Name:	

ADDITIONAL INFORMATION

Grant Application Type

Grant Application Type: Category One Site Improvement
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Grant Application Type: Category One Site Improvement
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PROJECT OTHER CONTACTS INFORMATION

Other Grant Project Contacts
Name: Mr. Darrel Jury, Project Role: Day-to-Day Responsibility Phone: 5302830202 Phone Ext: 262 E-mail: djury@frc.edu

UPLOADS

The following pages contain the following uploads provided by the applicant:

Upload Name
Completed Application Checklist
Table of Contents
Full Application Form
Authorization to Apply or Resolution
Narrative Descriptions
Detailed Budget Form
Restrictions/Agreements
Regulatory Requirements or Permits
CEQA Documentation
NEPA Documentation
Letters of Support
Long Term Management Plan
Project Location Map
Parcel Map Showing County Assessors Parcel Number

Topographic Map
Photos of the Project Site
Land Tenure- Only for Site Improvement Projects
Site Plan - Only Site Improv. or Restoration Proj.
Leases or Agreements
Leases or Agreements
Letters of Support

To preserve the integrity of the uploaded document, headers, footers and page numbers have not been added by the system.



Heart K Forest Health Project

Full Application Checklist

Project Name: Heart K Forest Health Project

Applicant: Feather River Resource Conservation District

Please mark each box: check if item is included in the application; mark "N/A" if not applicable to the project. "N/A" identifications must be explained in the application. Please consult with SNC staff prior to submission if you have any questions about the applicability to your project of any items on the checklist. All applications must include a CD including an electronic file of each checklist item, if applicable. The naming convention for each electronic file is listed after each item on the checklist. (Electronic File Name = EFN: "naming convention". file extension choices)

Submission requirements for all Category One and Category Two Grant Applications

1. ☒ Completed Application Checklist (*HeartK.Checklist.doc*)
2. ☒ Table of Contents (*HeartK.TOC.doc*)
3. ☒ Full Application Project Information Form (*HeartK.SIform.doc*)
4. ☒ Authorization to Apply or Resolution (*HeartK.authorization.doc*)
5. ☒ Narrative Descriptions - Submit a single document that includes each of the following narrative descriptions (*HeartK.Narrative.doc*)
 - a. ☒ Detailed Project Description (5,000 character maximum)
 - ☒ Project Description including Goals/Results, Scope of Work, Location, Purpose, etc.
 - ☒ Project Summary
 - ☒ Environmental Setting
 - b. ☒ Workplan and Schedule (1,000 character maximum)
 - c. ☒ Restrictions, Technical/Environmental Documents and Agreements (1,000 character maximum)
 - d. ☒ Organizational Capacity(1,000 character maximum)
 - e. ☒ Cooperation and Community Support (1,000 character maximum)
 - f. ☒ Long Term Management and Sustainability (1,000 character maximum)
 - g. ☒ Performance Measures (1,000 character maximum)

6. Supplemental and Supporting documents

- a. ☒ Detailed Budget Form (*HeartK.Budget.xls*)
- b. Restrictions, Technical/Environmental Documents and Agreements, as applicable
 - ☒ Restrictions / Agreements (*HeartK.RestAgree.pdf*)
 - ☒ Regulatory Requirements / Permits (*HeartK.RegPermit.pdf*)
 - ☒ California Environmental Quality Act (CEQA) documentation (*HeartK.CEQA.pdf*)
 - ☒ National Environmental Policy Act (NEPA) documentation (*HeartK.NEPA.doc*)
- c. Cooperation and Community Support
 - ☒ Letters of Support (*HeartK.LOS.pdf*)
- d. Long-Term Management and Sustainability
 - ☒ Long-Term Management Plan (*HeartK.LTMP.pdf*)
- e. Maps and Photos
 - ☒ Project Location Map (*HeartK.LocMap.pdf*)
 - ☒ Parcel Map showing County Assessor's Parcel Number(s) (*HeartK.ParcelMap.pdf*)
 - ☒ Topographic Map (*HeartK.Topo.pdf*)
 - ☒ Photos of the Project Site (10 maximum) (*HeartK.Photo.doc*)
- f. Additional submission requirements for Conservation Easement Acquisition applications only
 - ☐ Acquisition Schedule (*N/A*)
 - ☐ Willing Seller Letter (*N/A*)
 - ☐ Real Estate Appraisal (*N/A*)
 - ☐ Conservation Easement Language (*N/A*)
- g. Additional submission requirements for Site Improvement / Restoration Project applications only
 - ☒ Land Tenure Documents – attach only if documentation was not included with Pre-application (*HeartK.Tenure.pdf*)
 - ☒ Site Plan (*HeartK.SitePlan.pdf*)
 - ☒ Leases or Agreements (*HeartK.LeaseAgmnt.pdf*)

I certify that the information contained in the Application, including required attachments, is accurate.

Phillip m
Signed (Authorized Representative)

1/20/12
Date

Phillip Noid Chair of board
Name and Title (print or type)



Heart K Forest Health

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Heart K Forest Health

SIERRA NEVADA CONSERVANCY PROPOSITION 84 - PROJECT INFORMATION FORM

Rev. August 2011

PROJECT NAME Heart K Forest Health Project

APPLICANT NAME *(Legal name, address, and zip code)*

Feather River Resource Conservation District
PO Box 3562
Quincy, CA 95971

PERSON WITH FISCAL MANAGEMENT RESPONSIBILITY FOR GRANT CONTRACT/INVOICING

Name and title – type or print

Phone

Email Address

☐ Mr.

☒ Ms. Terri Rust

530-283-7512

frrcd@hotmail.com

COUNTY ADMINISTRATOR OR PLANNING DIRECTOR CONTACT INFORMATION *(At least one entry is required)*

Name:

Randy Wilson – Plumas County Planning Director

Phone Number:

(530) 283-7011

Email address:

randywilson@countyofplumas.com

Name:

Phone Number:

Email address:

NEAREST PUBLIC WATER AGENCY (OR AGENCIES) CONTACT INFORMATION *(At least one entry is required)*

Name:

Mike Yost – Indian Valley Community Services District

Phone Number:

(530) 284-6649

Email address:

msyost@frontiernet.net

Name:

Phone Number:

Email address:

Please identify the appropriate project category below and provide the associated details
(Choose One)

☒ Category One Site Improvement

☐ Category Two Pre-Project Activities

☐ Category One Conservation Easement Acquisition

<input checked="" type="checkbox"/> Site Improvement/Conservation Easement Acquisition Project area: 140 acres Total Acres: 884 acres SNC Portion (if different): 100 acres Total Miles (i.e. river or stream bank): 2 ½ mile SNC Portion (if different): ¼ mile For Conservation Easement Acquisitions Only <input type="checkbox"/> Appraisal Included <input type="checkbox"/> Will submit appraisal by _____	Select <u>one</u> primary Site Improvement/Conservation Easement Acquisition deliverable <input checked="" type="checkbox"/> Restoration <input type="checkbox"/> Enhancement <input type="checkbox"/> Resource Protection <input type="checkbox"/> Infrastructure Development / Improvement <input type="checkbox"/> Conservation Easement
<input type="checkbox"/> Pre-Project Activities	Select <u>one</u> primary Pre-Project deliverable <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Permit <input type="checkbox"/> CEQA/NEPA Compliance <input type="checkbox"/> Appraisal <input type="checkbox"/> Plan </div> <div style="width: 50%;"> <input type="checkbox"/> Condition Assessment <input type="checkbox"/> Biological Survey <input type="checkbox"/> Environmental Site Assessment </div> </div>

Feather River Resource Conservation District

Resolution No. 2011-02

December 15, 2011

**A RESOLUTION APPROVING THE APPLICATION FOR GRANT FUNDS
UNDER THE PROPOSITION 84 'HEALTHY FOREST' PROGRAM**

The following RESOLUTION was duly passed by the Board of Directors of the Feather River Resource Conservation District at a regular meeting held December 15, 2011, by the following vote:

AYES:

**President Phillip Noia
Director Rick Leonhardt
Director Phillip Bresciani**

NOES:

None

ABSENCE(S):

None

ABSTAIN(S):

None

SIGNED:


Phillip Noia, President

WHEREAS, the Legislature and Governor of the State of California have provided Funds for the Program shown above; and

WHEREAS, the Sierra Nevada Conservancy (SNC) has been delegated the responsibility for the administration of a portion of these funds through a local assistance grants program, establishing necessary procedures; and

WHEREAS, said procedures established by the Sierra Nevada Conservancy require a resolution certifying the approval of application by the Applicant's governing board before submission of said application to the SNC; and

WHEREAS, the Applicant, if selected, will enter into an agreement with the SNC to carry out the project; and

WHEREAS, the Feather River Resource Conservation District has identified the Heart K Healthy Forests as valuable toward meeting its mission and goals.

BE IT HEREBY RESOLVED by the Board of Directors of the Feather River Resource Conservation District, that this Board:

- Approves the submittal of an application for the Heart K Healthy Forest project; and
- Certifies that Applicant understands the assurances and certification requirements in the application; and
- Certifies the Applicant or title holder will have sufficient funds to operate and maintain the resource(s) consistent with the long-term benefits described in support of the application; or will secure the resources to do so; and
- Certifies the Applicant will comply with all legal requirements as determined during the application process; and
- Appoints Phil Noia, or designee, as agent to conduct all negotiations, execute and submit all documents, including but not limited to: applications, agreements, payment requests, and so on, which may be necessary for the completion of the aforementioned project.

PASSED AND ADOPTED by the Feather River Resource Conservation District on the 15th day of December, 2011.



Heart K Forest Health

Project Description

Environmental Setting

The Heart K Ranch is in Genesee Valley. The 884-acre working ranch is owned by the Feather River Land Trust (FRLT) and is open to the public. The Ranch is bisected by 2.5 miles of Indian Creek and encompasses oak and pine forests, riparian woodland, and mountain meadow.

Project Summary

The Feather River Resource Conservation District (FR-RCD) and FRLT are partnering to restore the Heart K's forest and riparian habitats, stimulate the local economy, and improve social well-being. To do this we will 1) improve water quality and riparian habitat by planting cottonwood and willow along ¼ mile of Indian Creek, 2) reduce wildfire risk by hand-thinning 100-120 forested acres, and 3) employ local indigenous people. The project will be completed in 2 phases over 3 years.

Project Goals

The vision of the Heart K Forest Health Project is to restore the oak, pine, and riparian forests of the Ranch using Traditional Ecological Knowledge (TEK) and contemporary land management practices. Our goals are to 1) improve watershed health and water quality, 2) reduce the risk of catastrophic fire, 3) employ indigenous people, and 4) protect natural and cultural resources.

Scope of Work

Improve Water Quality

Indian Creek is a tributary of the North Fork of the Feather River at the headwaters of the State Water Project. The segment of Indian Creek running through the Ranch has eroding cut banks, few mature cottonwoods, and limited willow available for traditional uses. A combination of past willow removal, channel down cutting, and scouring during flood events reduced the amount of riparian vegetation and large woody debris.

Our vision is to plant cottonwood and willow along ¼-mile of the creek to stabilize damaged areas, provide resources for traditional uses, provide wildlife habitat, and improve water quality. Restoring riparian habitat along Indian Creek will compliment other efforts in the Feather River Watershed to improve water quality.

Reduce Risk of Wildfire

Genesee Valley is shown as a Very High Fire Hazard Area on the Fire Hazard Severity Zones in State Responsible Areas map. The Plumas County Wildfire Protection Plan specifies that this wildland urban interface area is in need of fuel reduction.

In 2007, the Moonlight and Antelope Complex fires burned 88,000 acres on the Plumas National Forest (PNF) just north of Genesee Valley. Fuel treatments on the Antelope Complex were utilized extensively to reduce fire size and enhance suppression activities. The effectiveness of using fuel treatments to reduce fire severity and allow fire crews to better protect resources has been demonstrated repeatedly on the PNF.

The Heart K Ranch encompasses nearly 250 acres of oak woodland, mixed conifer and pine forests. Prior to the arrival of Euro-Americans, the forests found on the Heart K Ranch were



Heart K Forest Health

managed by Maidu to maximize acorn production. Post-Maidu forest management activities on the Ranch included fire exclusion and harvesting of large diameter trees. This resulted in a high density of small-diameter conifers shading out large-diameter black oaks. With the absence of fire and increased shade black oak acorns are not successfully germinating.

Our vision is to restore 100-120 acres of oak woodland and pine forest by hand-thinning conifers less than 14 inches DBH to increase sunlight for black oaks, provide firewood to low income residents, and reduce threat of catastrophic fire. Our work will compliment fuels reduction efforts on immediately adjacent lands managed by the PNF (200 acres) and private landowners (160 acres).

Employ Indigenous People

Mountain Maidu historically influenced the ecology of the Heart K Ranch by managing forests, riparian areas, and meadows with fire. Traditional practices resulted in increased diversity and reduced potential for catastrophic wildfire. Today Maidu have limited access to areas where they can practice traditional methods of land management. To restore indigenous management on the Heart K Ranch, local Genesee Valley Maidu and the Greenville Rancheria Wildland Fire Crew will be employed in restoration efforts. FRLT and the Greenville Rancheria are submitting a Tribal EQIP grant allowing Maidu to manage 40 acres of the Ranch with TEK.

Protect Natural & Cultural Resources

The diverse habitats of the Heart K Ranch support a variety of fish and wildlife species. The Ranch also includes culturally important sites. Pre-project surveys will identify and map sensitive natural and cultural sites. FRLT and the Plumas Audubon Society are submitting a Together Green grant to involve youth in natural resource surveys.

Deliverables

- Plant cottonwood and willow along ¼ mile of Indian Creek
- Hand-thin 100-120 forested acres - remove conifers less than 14" DBH, pile, and burn
- Hire Genesee Valley Maidu and the Greenville Rancheria Wildland Fire Crew
- Survey and map natural and cultural resources prior to project implementation



Heart K Forest Health

Workplan and Schedule

Workplan

The Heart K Forest Health Project will be completed in 2 phases – Riparian Restoration (Aug. 2012 – Dec. 2013) and Forest Restoration (Jan. 2013 – Dec. 2014).

Phase	Task	Timeline	Milestone
1	Riparian Restoration Natural & Cultural Resource Surveys Willow & Cottonwood Planting	Aug. 2012 – July, 2013 July – Dec., 2013	¼ mi. stream restored
2a	Forest Restoration – Stands 4-6 Planning, Layout, Permitting Natural & Cultural Resource Surveys Hand-thin, Limb, and Pile Burn Piles	Jan. – Feb., 2013 Feb. – July, 2013 Sept. – Nov., 2013 Nov. – Dec., 2013	50-60 acres treated
2b	Forest Restoration – Stands 2-3 Hand-thin, Limb, and Pile Burn Piles	June – Nov., 2014 Nov. – Dec. 2014	50-60 acres treated

Schedule

Detailed Project Deliverables	Deadline
Contract	August, 2012
Report #1	February 2013
Report #2	August, 2013
Report #3 – Riparian Restoration Project complete	February, 2014
Report #4	August, 2014
Report #5 – Forest Health Project complete	February, 2015

Restrictions, Technical / Environmental Documents and Agreements

Restrictions, easements and agreements on the Heart K Ranch include a conservation easement and a grazing lease. These agreements will not limit or restrict implementation of the proposed Forest Health Project.

The proposed project will be completed under the “Fuelwood or Split Products Exemption” as described under the California Forest Practice Rules, Section 1038.ii.b. Under this exemption, a CEQA compliant document is prepared by a Registered Professional Forester for the project and submitted to CALFIRE for approval; all work must be completed by a Licensed Timber Operator. Jason Moghaddas, a Registered Professional Forester (#2774) working for The Feather River Land Trust submitted this exemption January 17th, 2012 and it was approved on January 20, 2012.



Heart K Forest Health

Organizational Capacity

The FR-RCD has worked with local landowners in the Feather River watershed on resource conservation since 1954. Our mission is “to advocate resource conservation through education and collaborative efforts with willing landowners and organizations that promote economic and ecological sustainability.” The FR-RCD is a California Special District governed by a 5-member Board of Directors approved by the Plumas County Board of Supervisors. Current Board members are local ranchers and forested-lands owners who have experience with forestry and ranching practices in the area.

The FR-RCD employs a Project Manager who is responsible for all aspects of project management and coordination, as well as administrative and fiscal duties. Funds are held and distributed by the Plumas County Auditor’s Office.

Pertinent projects include:

- Quincy High School Forest Health / Fuels Reduction Project
- Caltrans Crescent Mills Wetland Conservation Area Project (\$100,000 budget)

Cooperation and Community Support

A collaborative process was employed to develop the Heart K Forest Health Project. FR-RCD and FRLT staff created project goals, outcomes, and performance measures. These were reviewed by FR-RCD and FRLT governing boards before seeking public input. On October 20, 2011 FRLT staff held a meeting in Genesee, CA to solicit public opinion. During a December 20, 2011 field trip to the Heart K Ranch, FR-RCD staff, FRLT staff and Greenville Rancheria Wildland Fire Crew leaders developed a work plan and project timeline. In attendance were Mountain Maidu representatives, Natural Resource Conservation Service staff, and representatives from Butte and Feather River Community Colleges. After these meetings FR-RCD and FRLT staff informed County Supervisors, local water agency representatives, and interested organizations and individuals about the goals and desired outcomes of the project. The Heart K Forest Health Project has received strong support on all fronts.

Long Term Management and Sustainability

Project goals are consistent with FRLT Strategic Plan (11/11/11) and Heart K Stewardship Plan (6/12/08). The Strategic Plan emphasizes partnering with Maidu groups on conservation projects. Stewardship Plan forest direction includes: reduce risk of large-scale high severity fire, reduce susceptibility to drought/insects, provide wood products, encourage California black oak and native plant & animal species. FRLT has conducted similar fuel reduction/oak release work on the Heart K. Long term goals include re-introduction of fire in treated areas, management of oaks for acorn production, and use of the area as a demonstration site for black oak conservation integrating traditional Maidu techniques with modern forestry practices. Riparian area management direction includes restoration via willow planting. Proposed restoration will compliment past planting efforts. Implementation of this project is consistent with FRLT’s long term management goals.



Heart K Forest Health

Performance Measures

In addition to the 4 standard SNC performance measures, 3 measures will monitor success in meeting our goals.

Improve Water Quality

Planting willows and cottonwoods along ¼ mile of Indian Creek will improve water quality. The desired outcomes are increased riparian vegetation cover, reduced bank erosion, and reduced water temperature and turbidity. Success will be measured in linear feet of stream bank restored.

Reduce Risk of Catastrophic Fire

Fuels reduction on the Heart K Ranch will reduce the risk of catastrophic fire. Hand-thinning and burning piles on 100-120 acres will compliment work that has been done on adjacent lands. The specific desired outcome is to reduce basal area by 25% by thinning conifers less than 14 inches DBH. Success will be measured in acres of land restored.

Employ Indigenous People

A primary goal of our project is to employ indigenous people. Success will be measured by the number and type of jobs created and filled by Native Americans.

Appendix B3

SIERRA NEVADA CONSERVANCY

PROPOSITION 84 - DETAILED BUDGET FORM

Project Name: Heart K Forest Health Project

Applicant: Feather River Resource Conservation District

SECTION ONE DIRECT COSTS	2012 Year One	2013 Year Two	2014 Year Three	2015 Year Four	2016 Year Five	Total
Project Management Costs						
Project Manager	\$2,000.00	\$10,650.00	\$10,625.00			\$23,275.00
Travel	\$150.00	\$700.00	\$650.00			\$1,500.00
Site Restoration Work Costs						
Pre-project Surveys	\$5,500.00	\$5,000.00				\$10,500.00
Project Planning & Layout	\$5,000.00					\$5,000.00
Cottonwood & Willow Planting		\$5,000.00				\$5,000.00
Environmental Review / Permitting		\$2,000.00	\$500.00			\$2,500.00
Thinning, Limbing, Piling		\$70,000.00	\$70,000.00			\$140,000.00
Pile Burning		\$10,000.00	\$10,000.00			\$20,000.00
DIRECT COSTS SUBTOTAL:	\$12,650.00	\$103,350.00	\$91,775.00	\$0.00	\$0.00	\$207,775.00

SECTION TWO INDIRECT COSTS	Year One	Year Two	Year Three	Year Four	Year Five	Total
Monitoring	\$100.00	\$100.00	\$100.00			\$300.00
Project materials & supplies purchased	\$100.00	\$500.00	\$500.00			\$1,100.00
Publications, Printing, Public Relations	\$100.00	\$100.00	\$100.00			\$300.00
INDIRECT COSTS SUBTOTAL:	\$300.00	\$700.00	\$700.00	\$0.00	\$0.00	\$1,700.00
PROJECT TOTAL:	\$12,950.00	\$104,050.00	\$92,475.00	\$0.00	\$0.00	\$209,475.00

SECTION THREE						Total
Administrative Costs (Costs may not to exceed 15% of total Project Cost) :						
Grant Administration	\$2,000.00	\$10,650.00	\$10,625.00			\$23,275.00
ADMINISTRATIVE TOTAL:	\$2,000.00	\$10,650.00	\$10,625.00	\$0.00	\$0.00	\$23,275.00
SNC TOTAL GRANT REQUEST:	\$14,950.00	\$114,700.00	\$103,100.00	\$0.00	\$0.00	\$232,750.00

SECTION FOUR OTHER PROJECT CONTRIBUTIONS	Year One	Year Two	Year Three	Year Four	Year Five	Total
Together Green Planning Grant	\$5,000.00					\$5,000.00
Sierra Business Council	\$20,000.00					\$20,000.00
CA Conservation Corps (pending)	\$9,500.00	\$9,500.00				\$19,000.00
Genesee Valley Maidu volunteers	\$3,000.00	\$5,000.00	\$5,000.00			\$13,000.00
Maidu Summit Consortium	\$5,000.00	\$5,000.00	\$5,000.00			\$15,000.00
NRCS Tribal EQIP (pending)		\$24,000.00	\$24,000.00			\$48,000.00
Together Green Grant (pending)		\$20,000.00	\$20,000.00			\$40,000.00
FRLT staff & volunteers		\$2,500.00	\$2,500.00			\$5,000.00
Feather River College students		\$1,000.00	\$1,000.00			\$2,000.00
Total Other Contributions:	\$42,500.00	\$67,000.00	\$57,500.00	\$0.00	\$0.00	\$167,000.00

NOTE: The categories listed on this form are examples and may or may not be an expense related to the project. Rows may be
 * Operating Costs should be allocated to the percentage that is applicable to the grant based on your cost allocation methodology



Heart K Forest Health

Restrictions / Agreements

Restrictions

A conservation easement was established on the Heart K Ranch on May 27, 2011. It is held by the California Department of Fish and Game. None of the activities proposed in the Heart K Forest Health Project will compromise the agreement. FRLT can provide the conservation easement upon request.



Heart K Forest Health

Regulatory Requirements

None of the activities proposed in the Heart K Forest Health Project warrant regulatory oversight or permits through any authoritative agency. All riparian restoration work will occur on the stream bank not in the channel, and be performed manually. Forest restoration work will be implemented by hand and therefore, create a minimum of ground disturbance. Only existing roads will be used to access work sites. Prior to actual project implementation, thorough natural and cultural resource surveys will be performed to ensure their protection.



DEPARTMENT OF FORESTRY AND FIRE PROTECTION
NORTHERN REGION HEADQUARTERS-REDDING
6105 Airport Road
Redding, CA 96002
(530) 224-2445
Website: www.fire.ca.gov



January 17, 2012

EXEMPTION NO.
2-12EX-026-PLU

FEATHER RIVER LAND TRUST
PO BOX 1826
QUINCY, CA 95971

This is to acknowledge the receipt of your "Notice of Timber Operation - Exemption From Timber Harvesting Plan Requirements" filed for timber operations which are exempt from Timber Harvesting Plan requirements per ***Title 14, California Code of Regulations, Section 1038(a), (b), (d), (e), (f) or 1104.1(a), (c).***

1. ☐ Christmas tree harvesting.
2. ☒ Harvesting dead, dying or diseased trees of any size, fuel wood, or split products in amounts less than 10 percent of the average volume per acre.
3. ☐ Removal of Fire Hazard Trees.
4. ☐ Single Conversion of Less Than 3 Acres.
5. ☐ Public Agency, Public and Private Utility Right-of-Way Exemption.
6. ☐ Substantially Damaged Timberland Unmerchantable as Saw log Exemption.
7. ☐ Lake Tahoe Basin, Dead or Dying Trees, 20 ac. Or Less Exemption.
8. ☐ Emergency Woody Debris and Slash Removal Exemption.
9. ☐ Forest Fire Prevention Exemption.

Compliance with all provisions of the Forest Practice Act and rules will be determined by future inspection. Please refer to the above-referenced number in future correspondence.

Sincerely,

MICHAEL J. BACCA RPF# 2236
Forester III, Cascade,
Sierra & Southern Regions
Forest Practice Manager

Attachment

cc: Unit
Inspector

BE
LMU
Quincy/Klem
FG2
WQS
PNF
Plumas

CHRISTMAS TREE; DEAD, DYING OR DISEASED;
FUELWOOD OR SPLIT PRODUCTS EXEMPTION

FOR ADMIN. USE ONLY

Ex. # 2-12EX-026-PLU
Date of Receipt 1/17/12
Date Expires 1/16/13 *OK*

STATE OF CALIFORNIA
DEPARTMENT OF FORESTRY AND FIRE PROTECTION
NOTICE OF TIMBER OPERATIONS THAT ARE EXEMPT FROM
TIMBER HARVESTING PLAN REQUIREMENTS; RM-73 (1038ab) (12/08)

VALID FOR ONE YEAR FROM DATE OF RECEIPT BY CAL FIRE

The Director of the Department of Forestry and Fire Protection (CAL FIRE) is hereby notified of timber operations under the requirements of 14 CCR § 1038(a) or (b). The following type(s) of timber operation is to be conducted:

- ☐ Harvesting Christmas trees.
- ☐ Harvesting dead, dying or diseased trees of any size in amounts less than 10 percent of the average volume per acre, where timber operations will meet the conditions listed in 14 CCR § 1038(b).
- ☒ Harvesting fuelwood or split products in amounts less than 10 percent of the average volume per acre, where timber operations will meet the conditions listed in 14 CCR § 1038(b).

The timber owner shall complete this form both pages, then sign on page two.

RECEIVED
JAN 17 2012 *mgs*

1. TIMBER OWNER(S) OF RECORD: Name Feather River Land Trust

Address 75 Court Street

City Quincy State CA Zip 95971 Phone (530) 283-5758

REDDING
FOREST PRACTICE

TIMBER TAX NOTICE: Timber owners owe timber yield tax when they harvest trees unless the harvest is exempt (Revenue and Taxation Code sec. 38116). Some small or low value harvests may be exempt from the timber yield tax: timber removed from an operation whose value does not exceed \$3,000 within a quarter, according to BOE Harvest Value Schedules, Rule 1024. If you believe your harvest may qualify for this exemption, please complete items A, B, C, and D below. For timber yield tax information or for further assistance with these questions call the State Board of Equalization, 1-800-400-7115 or write: Timber Tax Section, MIC: 60, State Board of Equalization, P.O. Box 942879, Sacramento, California 94279-0060; or contact the BOE Web Page on the Internet at <http://www.boe.ca.gov>.

A. Circle the option that most closely estimates the total volume for this harvest, in thousands of board feet (mbf - Net Scribner short log):

Under 8 mbf ☒ 8-15 mbf 16-25 mbf Over 25 mbf

B. Estimate what percentage of timber will be removed during this harvest:

Redwood 0 %; Ponderosa/Sugar pine 50 %; Douglas-fir 30 %; Fir 10 %;

Port-Orford Cedar 0 %; Cedar (IC, WRC) 5 %; Other conifer %; 0 %; Other hardwood 5 %.

C. Fuelwood over 150 cords? Yes ☐ No ☒ D. Christmas trees over 3,000 lineal feet? Yes ☐ No ☒

2. TIMBERLAND OWNER(S) OF RECORD: Name Feather River Land Trust

Address 75 Court Street

City Quincy State CA Zip 95971 Phone (530) 283-5758

3. LICENSED TIMBER OPERATOR(S): Name Feather River Land Trust

Lic. No. B10922 ✓

Address 75 Court Street

City Quincy State CA Zip 95971 Phone (530) 283-5758

NOTICE OF EXEMPTION FOR CHRISTMAS TREES; DEAD, DYING OR DISEASED; FUELWOOD. Page Two

- Designate the legal land description of the location of the timber operation. Attach a 7.5 minute quadrangle or equivalent map showing the location of the timber operation. It would be helpful to show the access road and attach a copy of an assessor's parcel map for areas of less than 40 acres.

Portions of	Section	Township	Range	Base & Meridian	County	Logging Area Acreage (Estimated)	Assessors Parcel # (Optional)
& 1, 11, 12	36 → 26N 12 → 25N	26N 25N	11E	Mt. Diablo	Plumas	270	See attached map

The following are limitations or requirements for timber operations conducted under a Notice of Exemption for Christmas Trees, Dead, Dying or Diseased, or Fuelwood (Notice, Notice of Exemption):

- This notice must be submitted to and received by CAL FIRE at one of the offices listed below prior to the commencement of timber operations.
- 14 CCR § 1038(b) places certain limits on the harvesting of Christmas trees, dead, dying and diseased trees, and fuelwood or split products. These limits need to be examined to assure compliance.
- Timber operations conducted under this notice shall comply with all operational provisions of the Forest Practice Act and District Forest Practice Rules applicable to "Timber Harvest Plan," "THP," and "plan." The requirements to submit a completion and stocking report normally do not apply. The requirements for environmental review under the California Environmental Quality Act (See 14 CCR § 15300.1) also do not apply.
- There are special requirements for timber operations conducted in Coastal Commission Special Treatment Areas, the Tahoe Regional Planning Agency area, and in counties with special rules adopted by the Board of Forestry and Fire Protection. These rules should be reviewed prior to submitting this notice to CAL FIRE.
- This Notice of Exemption is valid for one year from the date of receipt by CAL FIRE.
- A timber operator with a valid state license must be designated upon submission of this notice.

The following suggestions may help ensure your compliance with the Forest Practice Rules:

- Timber owners, timberland owners and timber operators should obtain and review copies of the Forest Practice Rules pertaining to the Notice of Exemption. Copies may be obtained from BARCLAYS LAW PUBLISHERS, P.O. BOX 3066, SO. SAN FRANCISCO, CA. 94080, or from CAL FIRE, Forest Practice Section, P.O. BOX 944246, Sacramento, CA 94244-2460; or from CAL FIRE's Web Page on the Internet at <http://www.fire.ca.gov>.
- Contact the nearest CAL FIRE office listed below for questions regarding the use of this notice.

FILE THIS NOTICE WITH THE CAL FIRE OFFICE BELOW FOR THE COUNTY IN WHICH THE OPERATION WILL OCCUR:

Alameda, Colusa, Contra Costa, Del Norte Humboldt, Lake, Marin, Mendocino, Napa, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma, western Trinity and Yolo Counties.	=> =>	Forest Practice Program Manager CAL FIRE 135 Ridgway Avenue Santa Rosa, CA 95401
Butte, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, eastern Trinity and Yuba Counties.	=> =>	Forest Practice Program Manager CAL FIRE 6105 Airport Road Redding, CA 96002
Alpine, Amador, Calaveras, El Dorado, Fresno, Imperial, Inyo, Kern, Los Angeles, Madera, Mariposa, Merced, Mono, Monterey, Orange, Riverside, San Benito, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Stanislaus, Tuolumne, Tulare, and Ventura Counties.	=> => =>	Forest Practice Program Manager CAL FIRE 1234 East Shaw Avenue Fresno, CA 93710

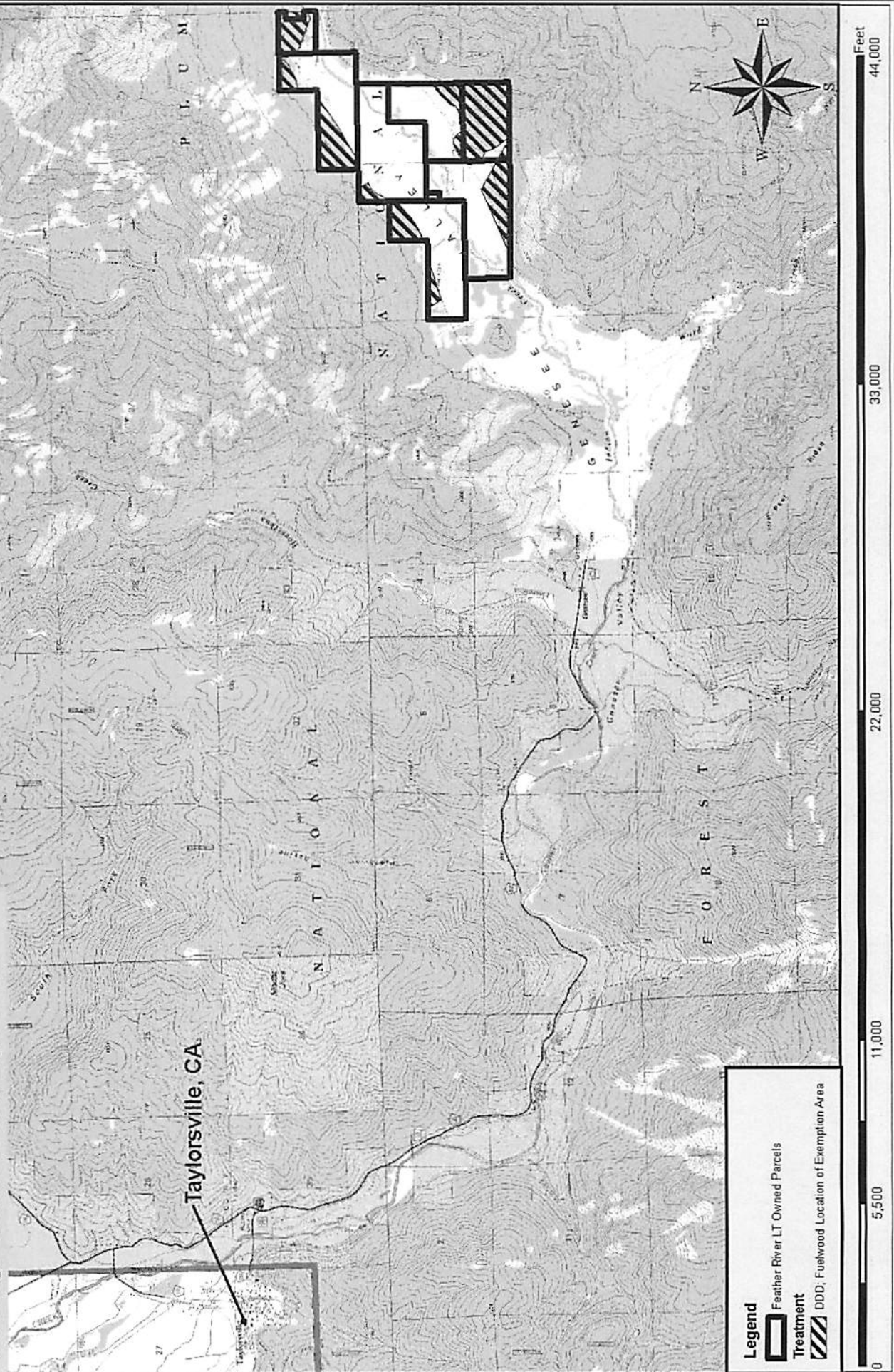
SIGNATURE OF THE TIMBER OWNER OR AGENT THEREOF:  Date: 01/17/2012

Printed Name: Jason Moghaddas, RPF #2774 Title: RPF #2774

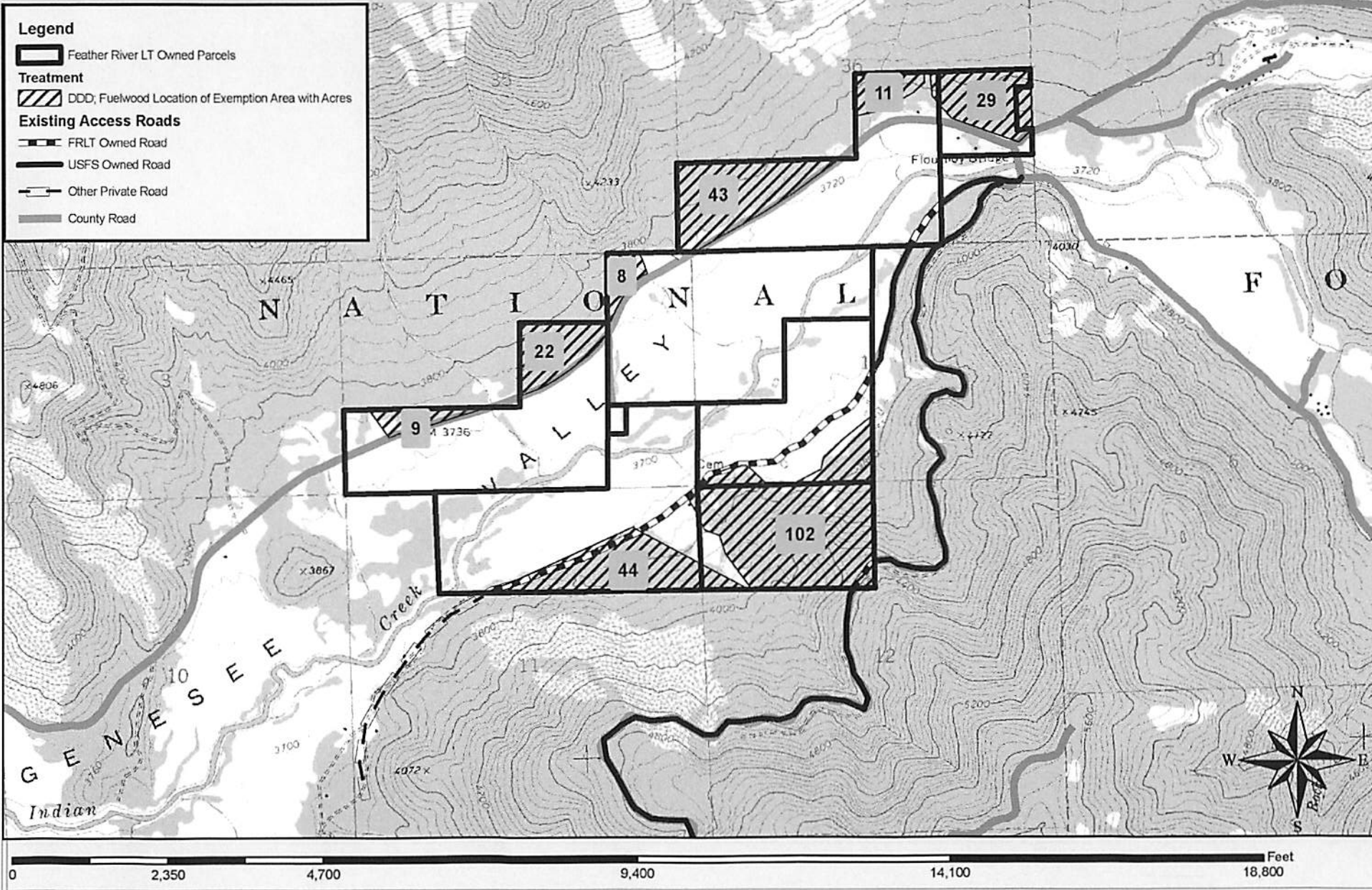
Address 75 Court Street

City Quincy State CA Zip 95971 Phone (530) 283-5758

Feather Land Trust: Christmas Tree;
Dead, Dying, or Diseased' Fuelwood or
Split Products Exemption.
Proposed Treatment Areas
Showing Nearest Town, Taylorsville




Feather Land Trust: Christmas Tree;
Dead, Dying, or Diseased' Fuelwood or
Split Products Exemption.
Proposed Treatment Areas
1:24,000 Scale




Feather Land Trust: Christmas Tree;
Dead, Dying, or Diseased' Fuelwood or
Split Products Exemption.
Proposed Treatment Areas
Detailed View

Legend


 Feather River LT Owned Parcels with APN

Treatment


 DDD; Fuelwood Location of Exemption Area with Acres

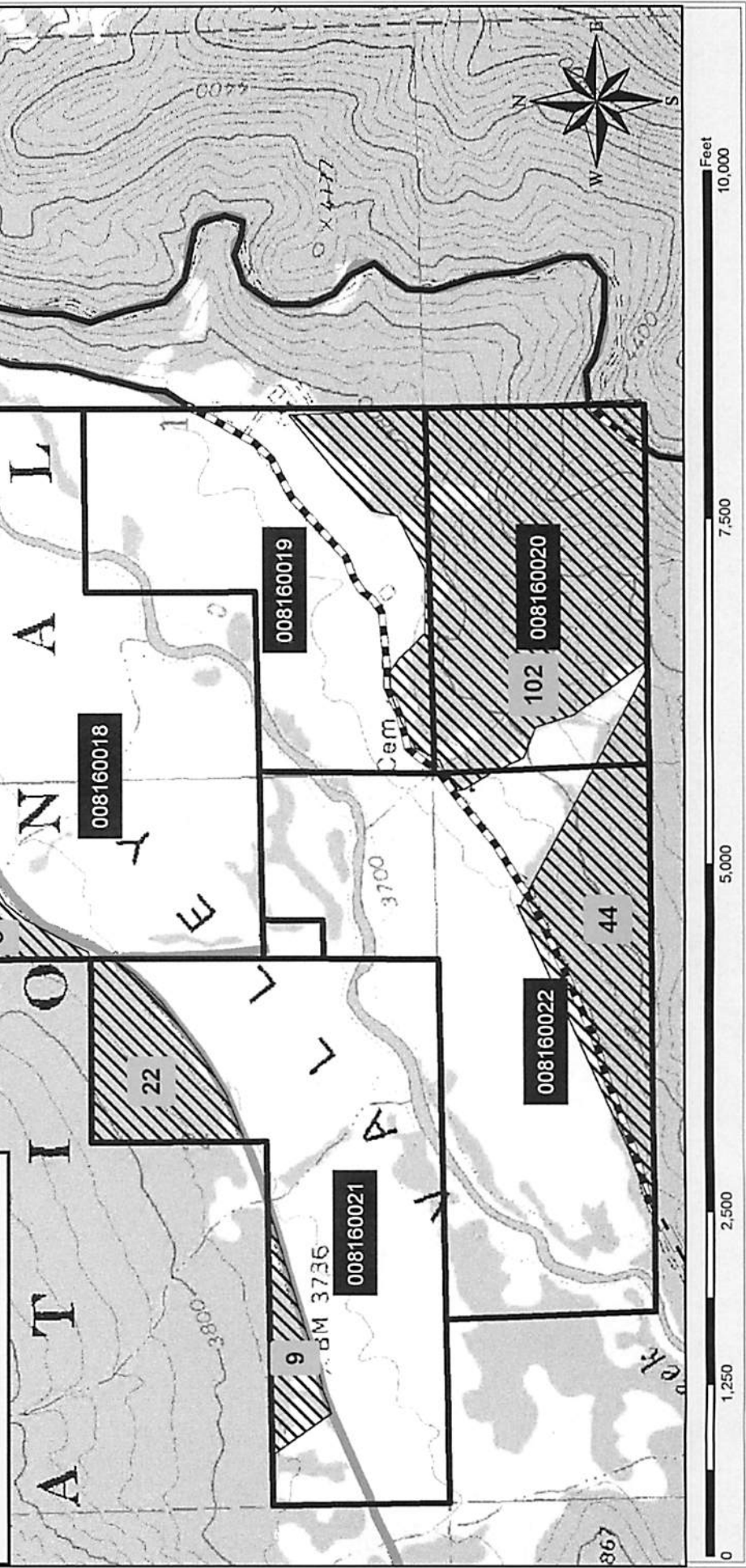
Existing Access Roads

 FRLT Owned Road

 USFS Owned Road

 Other Private Road

 County Road



FEATHER RIVER



LAND TRUST

Protecting the Places that Make the Feather River Country Special

Mission Statement

To conserve land in the Feather River region and steward its ecological and cultural values for current and future generations.

CAL FIRE

Attn: Forest Practice Program Manager
6105 Airport Road
Redding, CA 96002
Cc: Al Klem, Plumas County Area Forester

January 17th, 2012

Board of Directors

Bob Cobb
President

Dear CAL FIRE,

Carl Chavez
Vice President

On behalf of the Feather River Land Trust, please accept our submission of this "Christmas Tree; Dead, Dying, or Diseased; Fuelwood or Split Products Exemption". The project will be implemented on forest lands in Plumas County owned and managed by the Feather River Land Trust and in compliance with the California Forest Practice Rules.

Tom Wood
Secretary-Treasurer

Ken Casaday

Clare Churchill

Pat Fites

Ken Roby

We have consulted the Plumas County Area Forester, Al Klem on this project and he has reviewed the application and maps. We will not begin implementation of the project until summer, 2012 and the project will be completed using hand crews with chainsaws.

Adrienne Stenson

Tom Tisch

William Keese

If the project is approved, please e-mail the approval form to jmoghaddas@frlt.org and/or fax to (530) 283-5475. We are applying for grant funds and will need the completed forms by Friday, January 20th. Again, the project will not be implemented until summer, 2012 at soonest

Staff

Paul Hardy
Executive Director

Thanks again for your help,

Katie Bagby
Development Associate

Karen Kleven
Development Director

Jason Moghaddas, Registered Professional Forester #2774

Gabe Miller
Stewardship Coordinator

Jason Moghaddas
Conservation Director

Betty Moura
Development Assistant

Susan Payne
Operations Director



Heart K Forest Health

National Environmental Policy Act (NEPA) Documentation

NEPA documentation is not required for the Heart K Forest Health Project as the proposed work is not on federal land. The Heart K Ranch is owned by the Feather River Land Trust.

January 16, 2012

Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA 95603

Dear Grants Administration,

I wish to add my support for the Heart -K forest Project proposed by Feather River Land Trust and the Feather River Resource Conservation district to restore riparian vegetation along Indian Creek and reduce the threat of wild fire to old growth black oak and conifer stands.

The project will include planting willows and cottonwoods along Indian Creek riparian corridor which will enhance water quality and benefit fish, wildlife, and waterfowl.

Forest health and reduction of wildfire threat will result from understory burning of invasive conifers which have created fire ladders beneath stands of old growth conifers and oaks.

As a resident of Taylorsville for 35 years, I have become quite familiar with this reach of Indian Creek. I have participated in a cross section analysis of the creek channel and have fished and canoed the river and have frequently hiked along the riparian corridor.

My familiarity of the forest and riparian habitats on the Heart -K has been enhanced by my professional experience as Forestry instructor at Feather River College for 28 years where I focused on the ecology of Sierra mixed conifer forests.

Sincerely,

/s/ *Michael Yost*

Michael Yost
Indian Valley Community Services District Board Member
Forestry Instructor (Retired), Feather River College

cc: Feather River Land Trust

Plumas County Fire Safe Council



January 17, 2012

To: Jason Moghaddas
Conservation Director
Feather River Land Trust
City of Portola Planner
P.O. Box 1826
Quincy, CA 95971

Dear Jason,

The Plumas County Fire Safe Council (PC FSC) fully supports the Feather River Land Trust's Heart K Hazardous Fuel Reduction (HFR) and Black Oak Release Project, to reduce hazardous fuels within a "Community-at-Risk" and the Wildland Urban Interface as identified in our Community Fire Protection Plan.

Our Council's mission is, *"To reduce the loss of natural and manmade resources caused by wildfire through Firewise Community programs and pre-fire activities."*

In 2005, the Plumas County Fire Safe Council created and adopted a Community Wildfire Fire Plan (CWPP). The plan was subsequently adopted by the County of Plumas and recognized by CAL FIRE as an approved Community Wildfire Protection Plan. The full plan can be viewed at http://www.plumasfiresafe.org/fire_plan.htm. Plumas County's "Community-at -Risk" and WUI map was updated and adopted by the Board of Supervisors on November 2, 2010.

A key area of PC FSC's focus in the Mitigation Section is, Hazardous Fuel Reduction (HFR). The Plan recommends treating hazardous fuels on private and public lands through collaborative efforts in and around WUI's. PC FSC recommends that lands be treated to a standard which will create a fire-resilient stand, which would not contribute to initiating or sustaining a crown fire, and potential surface fuel flame lengths would be 4 feet or less.

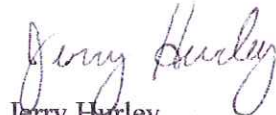
PC FSC is committed to increasing the acres of HFR Countywide, and reducing fuel loadings in and around our communities and in the WUI, as the only way to manage intensities of future wildland fires that will threaten them. The Heart K Project is

P. O. Box 1225, Quincy, CA 95971
(530) 283-0829
www.plumasfiresafe.org

consistent with our mitigation recommendations and will add treated acres to earlier projects by the Fire Safe Council, private landowners and the Plumas NF, in the vicinity of this project. There is extensive research documenting the effectiveness of hazardous fuel reduction projects that reduce fire intensity and spotting to increase survivability to communities, improve suppression success, provide a safer environment for firefighters and provide positive benefits to our natural resources including watersheds, forests, and habitats. Council members have witnessed firsthand the extensive benefits of hazardous fuel reduction projects in protecting communities, forests, habitats and watersheds from extensive damage by future wildfires.

The Plumas County Fire Safe Council fully supports the Feather River Land Trust's efforts obtain SNC funding to reduce the risk of large damaging fires with the Heart K Forest Health Project.

Respectfully,



Jerry Hurley
Council Coordinator

Feather River



COORDINATED RESOURCE MANAGEMENT PLUMAS CORPORATION

550 Crescent St., P.O. Box 3880 Quincy, CA 95971 (530) 283-3739

January 17, 2011

California Department of
Conservation

California Department of Fish
and Game

California Department of
Forestry and Fire Protection

California Department of Parks
and Recreation

California Department of
Transportation

California Department of Water
Quality Control Board

California Department of Water
Resources

Feather River College

Feather River Resource
Conservation District

Natural Resource Conservation
Service, USDA

North Cal-Neva Resource
Conservation and Development
District

Pacific Gas & Electric

Plumas Corporation

Plumas County

Plumas County Community
Development Commission

Plumas National Forest USFS,
USDA

Plumas Unified School District

University of California
Cooperative Extension

Salmonid Restoration
Federation

Sierra Valley Resource
Conservation District

Trout Unlimited

U.S. Army Corps of Engineers

USDA Farm Services Agency

U.S. Fish & Wildlife Service

Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA 95603

Dear SNC Grant Review Committee,

The Feather River Coordinated Resource Management (CRM) group at Plumas Corporation would like to express their support of the Feather River Resource Conservation District and Feather River Land Trust's project proposal to improve forest health at the Heart K Ranch. The Feather River Resource Conservation District (RCD) has been a signatory partner of the Feather River CRM since its inception in 1985. Over the years, the District has acted as the primary contact with private landowners seeking assistance with stream erosion issues on their properties, referring numerous landowners to the CRM for technical consultation. Many of those consultations have resulted in on-the-ground restoration benefitting watershed health. The Feather River CRM has also worked with the Feather River Land Trust (FRLT), providing technical assistance on bank stabilization efforts along Indian Creek on the Heart K Ranch. In rural communities, such as Plumas County, strong partner relationships are vital to the success of land stewardship projects. The Feather River CRM's success as a partnership organization for over 25 years exemplifies this and will continue to be committed to the efforts of its partners to improve watershed health in the upper Feather River.

The Feather River CRM supports the Heart K Forest Health Project for its benefits to the overall health of the Indian Creek watershed, which has been identified as a priority in the Upper Feather River Integrated Regional Water Management Plan (2005) for sediment. The proposal would protect and restore 100 acres of oak and coniferous forests by hand-thinning, piling and burning; improve the watershed and wildlife habitat along ¼ mile of Indian Creek by planting cottonwood and willows; and employ Mountain Maidu members in restoration efforts, all of which meet the common goal of the Feather River CRM's partnership to protect, maintain and enhance ecosystems and community stability in the Feather River Watershed through collaborative landowner participation. Furthermore, the project offers community involvement opportunities that would strengthen partnerships and help build capacity for both organizations. The Feather River CRM fully supports this project to improve forest health at the Heart K Ranch, as its goals meet the SNC's triple bottom line of sustaining environment, society, and economy.

Sincerely,

Gia Martynn,
Watershed Coordinator

United States Department of Agriculture



Natural Resources Conservation Service
California State Office
PO Box 3562
Quincy CA, 95971
(530) 283-7511
(530) 283-7736 (Fax)

Helping People Help The Land

To: Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA 95603

1-12-12

Re: Hart K Forest Health Project in Plumas Co.

The USDA Natural Resources Conservation Service Quincy Local Partnership Office supports the efforts of the Feather River Resource Conservation District (FRRCD) and Feather River Land Trust (FRLT) to improve forest health at the Hart K Ranch as part of a SNC Grant Proposal.

My office has worked with the staff of the FRRCD and FRLT for many years on projects and USDA Program contracts throughout the county, including initial planning efforts on the Hart K Ranch. I believe there are great opportunities on the Hart K ranch for restoration forestry activities using culturally sensitive methods of the local Maidu People. I am confident the FRRCD and FRLT can successfully implement treatments on the property which will significantly improve the upland and riparian forest conditions on the ranch for wildlife diversity, traditional cultural uses and overall forest health.

My office has assisted many neighboring landowners with similar type projects in Genesee Valley over the years. The Forestry restoration activities planned as part of this SNC Grant Proposal will complement these efforts nicely, and make future NRCS projects a high priority in this area.

Feel free to contact me about this letter of recommendation or how this Grant will complement NRCS and Plumas National Forest projects already completed in the watershed. My office phone is 283-7511, cell is 218-0825, and email is dan.martynn@ca.usda.gov.

Sincerely,


Dan Z. Martynn
District Conservationist
Plumas / Sierra Co's

January 13, 2012

Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA 95603

Grants Administration,

As a landowner in Genesee Valley near the Heart K property, I have been informed of the plan to do forest thinning on approximately 100 acres of forested areas bordering the meadow and restoration of a portion of Indian Creek through the planting of willows and cottonwood. With several large fires occurring in our backyard in recent years, it is evident that we need to take action to improve the health of our forests by thinning out dense undergrowth and reducing the threat of catastrophic wildfire. The plan also emphasizes providing work for local contractors, a component vital to sustaining rural economies.

I welcome and support the efforts of the Feather River Resource Conservation District in partnering with the Feather River Land Trust to accomplish this project.

Sincerely,

A handwritten signature in dark ink, appearing to read "Bob Budworth", followed by a horizontal line.

January 13, 2012

Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA 95603

Grants Administration,

As a landowner in Genesee Valley near the Heart K property, I have been informed of the plan to do forest thinning on approximately 100 acres of forested areas bordering the meadow and restoration of a portion of Indian Creek through the planting of willows and cottonwood. With several large fires occurring in our backyard in recent years, it is evident that we need to take action to improve the health of our forests by thinning out dense undergrowth and reducing the threat of catastrophic wildfire. The plan also emphasizes providing work for local contractors, a component vital to sustaining rural economies.

I welcome and support the efforts of the Feather River Resource Conservation District in partnering with the Feather River Land Trust to accomplish this project.

Sincerely,





United States
Department of
Agriculture

Forest
Service

Plumas
National
Forest

Mt. Hough Ranger District
39696 Highway 70
Quincy, CA 95971-6007
(530) 283-0555 Voice
(530) 534-7984 Text (TDD)

Date: January 20, 2012

Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA

Dear Grants Administrator,

The Mt. Hough Ranger District of the Plumas National Forest supports the efforts of the Feather River Resource Conservation District and Feather River Land Trust to improve forest health at the Heart K Ranch.

The efforts to improve water quality, reduce the risk of damaging fires, protect natural and cultural resources, and improve opportunities for recreation are all very much in line with the Forest Service objectives on National Forest System Lands. Since the lands surrounding the Heart K are largely National Forest, the proposed work will be of benefit to public lands and compliment current adjacent fuels reduction efforts.

Sincerely,

MICHAEL DONALD
Mt. Hough Ranger District





570 Golden Eagle Avenue, Quincy, California 95971

530-283-0202 ♦ info@frc.edu ♦ www.frc.edu

January 9, 2012

Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA 95603

Grants Administration,

The Feather River College Environmental Studies Department supports the efforts of the Feather River Resource Conservation District and Feather River Land Trust to improve forest health at the Heart K Ranch.

The Heart K Forest Health Project will protect and restore 100 acres of oak and coniferous forests by hand-thinning, piling and burning; improve the watershed and wildlife habitat along ¼ mile of Indian Creek by planting cottonwood and willows; and employ Mountain Maidu members in restoration efforts. Furthermore, the project will benefit Environmental Studies students as it will provide a destination where classes can work with professionals using best practices of land management.

The Feather River College Environmental Studies Department is in full support of this effort to improve forest health at the Heart K Ranch as its goals meet the triple bottom line of sustaining environment, society, and economy.

Sincerely,

/s/

Darla S. DeRuiter, Ph.D.

Associate Professor

Environmental Studies & Outdoor Recreation Leadership

Chair, Professional & Technical Studies Division

Feather River College

570 Golden Eagle Drive

Quincy, CA 95971

(530)283-0202 x262

dderuiter@frc.edu

MICHAEL YOST
POST OFFICE BOX 225
TAYLORSVILLE, CA 95983

530-284-6649

January 16, 2012

Sierra Nevada Conservancy
11521 Blocker Drive, Suite 205
Auburn, CA 95603

Dear Grants Administration,

I wish to add my support for the Heart –K forest Project proposed by Feather River Land Trust and the Feather River Resource Conservation district to restore riparian vegetation along Indian Creek and reduce the threat of wild fire to old growth black oak and conifer stands.

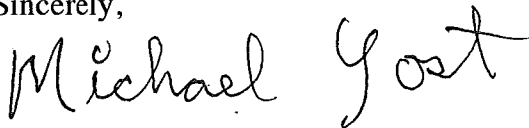
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Forest health and reduction of wildfire threat will result from understory burning of invasive conifers which have created fire ladders beneath stands of old growth conifers and oaks.

As a resident of Taylorsville for 35 years, I have become quite familiar with this reach of Indian Creek. I have participated in a cross section analysis of the creek channel and have fished and canoed the river and have frequently hiked along the riparian corridor.

My familiarity of the forest and riparian habitats on the Heart –K has been enhanced by my professional experience as Forestry instructor at Feather River College for 28 years where I focused on the ecology of Sierra mixed conifer forests.

Sincerely,



Michael Yost
Forestry Instructor (Retired), Feather River College

JAN 18 2012

cc: Feather River Land Trust

EG 556

STEWARDSHIP PLAN FOR HEART K RANCH

Developed by the FRLT Land Stewardship Committee

Adopted by the Feather River Land Trust Board of Directors

June 12th, 2008

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Stewardship Purpose, Vision, Goals, and Strategies

STEWARDSHIP PURPOSE

To conserve and restore the Heart K Property's native species, natural communities, and historical and cultural assets, provide opportunities for ecologically-compatible public access and recreation, educate the public about the natural and cultural history of Genesee Valley, and conduct scientific research and monitoring.

It is our intention that this Stewardship Plan inform the pursuit of the above purposes, and that, consistent with adaptive management, the Plan be a working document that is updated regularly to reflect our increasing knowledge of the land and evolving needs of our organization and those we serve.

STEWARDSHIP VISION

The Heart K Ranch Property is a place where people experience the beauty of Genesee Valley. The property supports healthy populations of native species and thriving natural communities, which are managed in an ecologically sustainable manner. Local children's groups and a wide variety of other groups regularly visit the property to learn about the natural and cultural history of Genesee Valley. The public enjoys bird watching, canoeing & kayaking, hiking, and many other forms of compatible recreation. Ongoing research and monitoring projects inform the adaptive management of the property and the overall health of the valley floor and riparian areas. The historic, cultural, and natural assets of the valley are preserved for future generations. Sustainable working ranch management is conducted in a manner that contributes to the restoration process. The local community and others who care about Genesee Valley have developed a relationship with the property, and are actively engaged in its stewardship and conservation.

STEWARDSHIP GOALS AND STRATEGIES

I. Conserve and restore the native species, natural communities, and ecological health of the property.

- Develop and maintain science-informed restoration and ranching plans for the property.
- Conduct ecological monitoring, restoration projects, and sustainable ranching.
- Ensure that the uses and management of the property are compatible with ecological conservation, restoration, sustainability, and historic uses.
- Work to replace non-native, noxious plant species with native vegetation.

II. Ensure that management of property is informed by science and ongoing monitoring.

- Develop a research and monitoring plan that includes baseline studies of natural and historic sites.
- Conduct and facilitate monitoring and research on the property.
- Prioritize monitoring of sensitive sites, including cottonwood populations and riparian areas.

- Periodically review results of scientific research and monitoring to ensure that management of property is informed by findings.

III. Provide opportunities for ecologically-compatible public access and recreation.

- Develop policies and a plan for public access.
- Develop a public outreach strategy for the property that encourages compatible public access and discourages incompatible access.
- Raise resources for and purchase materials and infrastructure that will support and enrich community and general public access to the property.
- Conduct field trips and other activities on the property for FRLT members, supporters and similar organizations, and the general public.
- Create an information center at the Main House to teach visitors about the ecology and ranching history of the property and Genesee Valley.

IV. Protect and respect the cultural sites and traditional uses of the property.

- Work with Maidu people to identify and protect cultural sites.
- Provide opportunities for continuing traditional uses of the property by Maidu people.

V. Educate local students and the general public about the natural and cultural history of Genesee Valley and sustainable ranching practices.

- Conduct and facilitate educational field trips and activities on the property.
- Facilitate ongoing research and monitoring projects by students and the public.
- Develop a long-term education plan for property.
- Promote the Heart K as a Learning Landscape, accessible to the education community, locally and statewide.

VI. Support the local ranching community and economy.

- Demonstrate the compatibility of ranching and ecosystem integrity.
- Pay property taxes and other “taxpayer” costs of owning and managing the property.
- Build relationships with local ranchers and agricultural organizations.
- Monitor impacts of grazing and adjust as required.

VII. Use the property to raise funds, build public support for our work, and cultivate relationships.

- Hold regular events for FRLT members and other key funders and constituencies.
- When appropriate, use property resources in a sustainable manner to generate funds (e.g. consider water transfers to downstream users).

VIII. Ensure that FRLT has the organizational, financial, and legal capacity to effectively own and manage the property in perpetuity.

- Establish and build a sufficient stewardship endowment for the property.
- Develop financial plan for management of the property, including a diversified income strategy, that takes into account the existing buildings and physical assets.
- Conduct legal due diligence to mitigate legal liabilities.

- Manage the property according to LTA “Standards and Practices”.

IX. Restore, preserve, and utilize the existing buildings as necessary to maintain the historic, agricultural, educational, and monetary values of the property.

- Ensure that the houses and agricultural infrastructure are maintained in a functional and safe condition.
- Preserve the buildings and sites that bespeak the cultural history of the valley and region.
- Create and maintain defensible space around the structures on the property.

2008 Workplan Goals & Summary:

Management of The Heart K property is complex- several components need to be developed and integrated into a sustainable long-term vision and plan. The primary work plan goals in FY 2008 include the following (see detailed work plan for more information):

- Develop integrated grazing, recreation water management, riparian restoration, noxious weed, and Davis House/other building management and implementation plans for the Heart K property and Taylor Lake.
- Conduct at least 4 volunteer days at the Heart K Ranch to do stream restoration, building restoration, burning of piles.
- Conduct at least one volunteer work day at Taylor Lake to clean up the camp ground, pull weeds, and possibly clean up fire damage.
- Continue volunteer and donor recruitment at all levels through activities at the HK Ranch
- Continue to encourage education use of the property

Heart K 2008 Workplan (June 1st 2008 through FY '08): Detailed

Tasks • Subtasks	Who	By When	Estimated Staff Days	Estimated Materials Cost
Due Diligence				
Delineate boundaries on south side of property <ul style="list-style-type: none"> Visit USFS to determine which boundaries have been marked/blazed/surveyed Spend field time to flag property line Put signage up on fences/property lines 	JM, AO	07/30/08	4	\$0- cost of signage shown under "signage needs"
Stewardship Committee				
<ul style="list-style-type: none"> Update stewardship committee and advisor composition to accomplish updating grazing, water, noxious weed, building repair, and riparian restoration plans/projects Committee & staff to develop riparian, fencing, irrigation, public use, and weed management (AO) policies/strategies for HK Determine carbon management goals for property- demonstration site? Develop options for proposed hazard tree removal (Phil Noia/PG & E) at HK Ranch 	JM, AO, PH, Stewardship committee	Complete all by end of August, '08	4	\$0
Prop 50 Grant Preliminary Field Work: Water Rights, Riparian Restoration, Irrigation, and Fencing				
Ensure security of water rights. <ul style="list-style-type: none"> Meet w/ water master. Update US Forest Service Special use permit Once prop 50 funds are available, initiate detailed "Water Dedication Feasibility Study" of HK and Taylor Lake-6,000 available through prop 50 for study Use water at HK as needed to secure rights 	JM/PH/MY	FY '08	6	\$0
Assess Taylor Lake Dam and Headgate (use existing TNC work if available)	JM/TNC	FY '08	1	\$0
Call Water Master re: annual fee (are we automatically billed)	JM/PH	06/30/08	0.5	

Develop long term grazing plan/strategy for HK in conjunction with prop 50 grant. <ul style="list-style-type: none"> • Work with Neff Ranch, NRCS, and other advisors to develop strategy • Consider getting pastures certified as organic (AO) • Work with NRCS to develop rotational grazing plan 	JM, AO, HK Stewardship Committee, NRCS	12/31/08	6	\$0
Research fencing needs (prop 50 prelim work). <ul style="list-style-type: none"> • Determine location, type, length, and cost. • Make sure fencing type (electric/barb wire) and locations consider public access and safety 	JM, AO, PH, M Yost	8/31/08	5	\$40 (flagging for fence line)
Research costs/materials fencing and off-site water equipment and supplies (prop 50 prelim work). <ul style="list-style-type: none"> • Based on research, purchase supplies or hire contractors as needed- this will likely be in late FY '08 or FY '09 	JM	FY '08 and '09	1	\$0
Research off-site water needs for cattle (prop 50 prelim work). <ul style="list-style-type: none"> • Investigate solar pumps for pumping water from Indian Creek up to high point south of main house (MY). • Study optimal placement of livestock watering areas to serve multiple pastures 	MY/JM	8/31/08	2	\$0
Research alternative for irrigation of fields, including modification or relocation of ditch, water take out, piping, etc at HK (prop 50 prelim work). Work with local irrigation experts/ranchers to come up with viable alternatives for water diversion, pumping, storage, and distribution to fields	JM, MY, advisors and Prop 50 funds hired consultants	9/30/08	6	\$0
Develop Riparian restoration plan (prop 50 prelim work) <ul style="list-style-type: none"> • Work with NRCS, wetlands consultants, TNC, CRM, Mike Kossaw,USFS, and/or other partners (e.g., Ken Cawley). Nat. Wetlands Restoration Team to develop restoration/revegetation strategy. Consult with Maidu about management strategies 	MY/JM/PH//A OOthers	FY '08 and '09	5	\$0
Public Access, Facilities Use, Recreation				
Signage needs. <ul style="list-style-type: none"> • Assess overall signage needs • Assess type and location of signage to inform public of boundaries rules, etc of the property • Order signs 	AO/JM	FY '08	3	\$600
Develop day use policies	JM, SP, Judy	07/31/08	2	\$0

	Schaber, Board, Stewardship Committee			
Develop facilities use (rental) policies	SP, JM, PH	07/31/08	3	\$0
Science and Monitoring				
Develop research and monitoring plan for property (prop 50 prelim work) <ul style="list-style-type: none"> Develop baseline monitoring plan for Prop 50 grant Work with TNC, FRC, SF State, Greenville High and/or others (Nat. Wetland Restoration Team?) for other monitoring 	JM, AO	FY '08	3	\$0
Continue baseline biological and botanical surveys of property	PH/Others	FY '08 and '09	3	\$0
Structures on HK				
Determine restoration goals/strategy for Davis House and Barn	JM/Jim Webster/other interested members	FY '08	2	\$0
Volunteer Days, Funding, and Member Development				
Invite new members to volunteer days	AO, JM	Ongoing	1	\$0
Continue to work with NRCS on potential funding sources and projects.	PH, JM, LPC	Ongoing	2	\$0
Schedule and conduct work and education days on property. <ul style="list-style-type: none"> HK Riparian Restoration Day Taylor Lake weed pulling and campground cleanup Winterize HK buildings Burn piles at HK HK (Davis House) building day 1 additional education days 	JM, AO, volunteers	12/31/08	8	\$300 for misc supplies-trash bags, food, pile covering material, etc
Other				
Develop Stewardship Plan and Budget	JM	June '08	3	\$0
Pay property taxes	LPC, PH	Ongoing	0.5	\$0
Develop Risk Management Plan as per LTA standards	JM	08/31/08	2	\$0
Delineate area for hazardous fuels removal on south side of property <ul style="list-style-type: none"> Work with Fire Safe council to secure funding 			3	\$40 Flagging
TOTAL DAYS AND ESTIMATED MATERIALS	-	-	76 staff days	\$980

Appendix A: Potential Stewardship Partners

- *The Nature Conservancy*
 - Key Contacts: Jim Gaither, Mark Reynolds, Henry Little, Greg Low
 - Potential Activities:
 - technical expertise on monitoring and restoration
 - conduct monitoring and restoration
 - help coordinate and lead fundraising tours
 - other fundraising assistance
 - legal assistance
- *Sierra Business Council*
 - Key Contacts: Steve Frisch
 - Potential Activities:
 - help coordinate and lead fundraising tours
 - other fundraising assistance
 - assistance with public outreach and education
- *Plumas Audubon Society*
 - Key Contacts: Sally Yost, Harry Reeves, Jim Paruk, Linda Blum
 - Potential Activities:
 - help lead birding and canoe tours
 - help with public education
 - help with fence construction
- *USDA Forest Service, Plumas National Forest*
 - Star thistle management partnership
 - Collaboration on watershed restoration and hazardous fuels reduction
- *Trout Unlimited, Graeagle Chapter*
 - Key Contacts: John Hafen, John Williamson, David Heaslett
 - Potential Activities:
 - help with fence construction and other restoration activities
 - fish and water quality monitoring?
 - legal assistance (Heaslett)?
- *Natural Resource Conservation Service (NRCS)*
 - Key Contacts: Dan Martynn, Ceci Dale-Cemat
 - Potential Activities:
 - technical expertise re: rangeland management and wetland restoration
 - assistance in project design and monitoring
 - funding for projects and stewardship (see below)
- *University of California Cooperative Extension*
 - Key Contacts: Holly George
 - Potential Activities:
 - technical expertise with rangeland management
 - landowner relations
- *Feather River College*
 - Key Contacts: Mike Yost, Jim Paruk, Ken Cawley, Russell Reid
 - Potential Activities:
 - scientific research and monitoring
 - field trips and public education
 - technical assistance

- *San Francisco State University, Sierra Nevada Field Campus*
 - Key Contacts: Jim Steele, Mac McCormick
 - Potential Activities:
 - Scientific research and monitoring
 - Field trips and public education
- *Local Schools and Students* (e.g., Dave Valle's Advanced Biology Class from Portola)
 - Key Contacts: Dave Valle, Bill Harnach, Becky Hardy, Rob Wade
- *Sierra Valley Resource Conservation District (RCD)*
 - Key Contacts: Larry Goldsmith, Jan Stine
- *Sierra Valley Natural History Museum (Visitor's Center)*
 - Key Contacts: Gary Romano (board), Bill Copren (board), John Sheehan (board)
- *Plumas Corporation/Feather River Coordinated Resource Management (CRM)*
- *Individual Botanists, Biologists, Hydrologists, etc.*
 - Bill and Nancy Harnach, Jim Battagin, John Dittes, Lori Powers, John and Jeanene Hafen, etc.
- *Point Reyes and Great Basin Bird Observatories*
 - Dave Shufford (PRBO)
 - David DeSante (PRBO)
 - Elisabeth Ammon (GBBO)
- *California Rangeland Trust*
- *Other Audubon Societies (e.g., Lahontan, Mount Diablo)*

Appendix B: Potential Funding Sources and Collaborative Partners

- NRCS
 - Wetland Reserve Program conservation easement
 - Wildlife Habitat Incentives Program (WHIP)
 - Environmental Quality Incentives Program (EQIP)
 - Others?
- Plumas County Fire Safe Council
- USDA Forest Service
- CALFIRE
- East Bay Municipal Utility District (water transfer)
- Pacific Gas and Electric Company
- Grazing leases
- Facilities use fees for home and property use by non-FRLT groups
- The Nature Conservancy
- Sierra Business Council
- SBC and PG & E Carbon Cooperative- consider making portions of FRLT conifer forest a part of Carbon Cooperative as a demonstration site
- Sale of conservation easements on all or portions of property
- Lease of portions of property for small scale organic farming
- Interest income from stewardship endowment
- Wetland grant sources: NAWCA, NFWF, other
- Other wetland mitigation funding
 - CalTrans, developments, etc.

Appendix C: Heart K Biological Inventory (fisheries, birds, mammals, and other species)

Biological inventories of the Heart K Ranch and Taylor Lake are on-going. In 2008, existing monitoring data will be compiled into a single document which can be used to inform management decisions for the property. Heart K fisheries assessments and information are included below.

Heart K Ranch Rapid Fishery Assessment

October 27, 2004

Summary

Indian Creek flows over the Heart K Ranch in Genesee Valley and currently supports a moderately good trout fishery. Recent fishing excursions have produced 6 to 8 rainbow and brown trout ranging in size from 10 to 16 inches, in a morning or afternoon. Rainbow trout are caught much more frequently than brown trout. Historically, the fishery in Indian Creek over the Heart K was reported to be fantastic, but a century of abusive land management practices have harmed the trout fishery. With restoration and improved stewardship, this fishery has the potential to return to a very good if not excellent condition. The purpose of this assessment is to provide a brief overview of these conclusions.

Geography

The Heart K Ranch lies immediately downstream of the confluence of Red Clover Creek, Last Chance Creek, and Indian Creek. After the confluence, the creek retains the name of Indian Creek, which continues through Indian Valley, over Indian Falls, and into the North Fork Feather River. The watershed above the Heart K Ranch is over 200,000 acres in size, with elevations exceeding 7,000 feet on surrounding mountains. This mountainous landscape consists of Sierran mixed conifer, montane hardwood, jeffrey pine, and montane chaparral in the western portion of the watershed, and eastside pine, sagebrush, montane chaparral, and montane meadow in the eastern portion of the watershed. This large, high altitude, and well-vegetated watershed generally provides continuous flows of cool water through Indian Creek over the Heart K Ranch in summer months. A temperature reading in September of this year showed 64°F. Severe drought conditions however, may reduce summer flows and raise water temperatures. Locals would describe the winter of 2003/2004 as a “moderate” drought.

Historic Fishery (1800 to 1985)

As late as the early 1980's, locals report that the fishery in Indian Creek was “incredible” with people catching abundant “salmon sized” trout. In the early 1900's, locals report being able to fill a “gunny sack” with trout. While fishermen may be prone to exaggerate, one can see the potential of these waters to provide an outstanding fishery. The watershed is large and ranges in elevation from 4300 to over 7000 feet in elevation, providing cool and abundant summer flows. The abundant forest cover would have provided coarse woody debris, and the riparian vegetation has the potential for dense cover providing shaded and cool water conditions, not to mention forage for insects.

The North Fork of the Feather River once supported a very strong chinook salmon fishery. Chinook salmon, as well as steelhead, were recorded as far upstream as Indian Falls on Indian Creek, which is located approximately 20 stream miles below the Heart K Ranch. It is considered possible, though not likely, that some chinook salmon and steelhead made their way above Indian Falls and into Genesee Valley. The anadromous fishery of the Feather River system was destroyed with construction of the Oroville Dam in 1968.

Rainbow trout were, and still remain, the most widely distributed native fish in western Sierra Nevada watersheds. Rainbow trout occur today in Indian Creek over the Heart K Ranch, and appear to be the most common trout. The native strain of rainbow trout in the western Sierra Nevada mountains, including Indian Creek, has been changed due to the introduction of hatchery-raised fish from other parts of California and North America. For example, the McCloud River rainbow trout from the McCloud River, and the Kamloops rainbow trout from British Columbia, have been widely-used in hatcheries and for transplanting in California, and these strains (among others) may be present in the genetic composition of rainbow trout on Indian Creek.

The brown trout that occur in California today are native to Germany and Scotland, and were first planted in California in 1893. Since that time, brown trout have been indiscriminately planted throughout California, and are now resident in Indian Creek over the Heart K Ranch.

Antelope Dam was completed in 1964 on Upper Indian Creek to provide water-oriented recreation, and to assure a constant, year-round flow of water below the dam for the Indian Creek fishery. The reservoir has been stocked repeatedly with non-native warm-water fishes to support a recreational fishery. Many of these non-native fishes enter Indian Creek due to spillover. The impact of these introductions on the Heart K Ranch fishery is largely unknown. The provision of summer flows probably has a moderately beneficial impact on the trout fishery on the Heart K Ranch.

The watershed of Indian Creek and Genesee Valley have experienced land management practices that have caused the fishery to decline since the California Goldrush of the mid-nineteenth century. Mining, timber harvest, road construction, livestock grazing, and channel modifications have severely altered Indian Creek and Genesee Valley. These negative impacts included removal and degradation of the riparian (stream-side) vegetation, siltation, and channelization of the stream corridor. The Army Corps of Engineers used bulldozers to clear and straighten Indian Creek in Genesee Valley in the 1950's and 1960's.

When the floods of 1986 and 1997 hit Genesee Valley, Indian Creek lacked characteristics that would have provided some protection and resilience to high flows and flooding. The lack of extensive riparian vegetation combined with a straightened channel made the creek vulnerable to severe degradation and alteration by the floods. Locals report that Indian Creek in Genesee Valley was "completely blown out" by these floods. The creek lost all remaining riparian vegetation and large woody debris. The flood scoured the creek channel, taking away thousands of cubic yards of material, and leaving the creek channel in a heavily degraded and eroded condition. Indian Creek has recovered somewhat from these storm events.

Current Fishery (1986 to 2004)

Today, Indian Creek in Genesee Valley is showing signs of recovery. The current stream channel lies 12 to 14 feet below its historic level, and is no longer connected to the entire valley flood plain. The riparian vegetation consists of mature cottonwood trees growing at some distance from the creek, and at a higher elevation than the creek, in the historic floodplain. There is abundant young cottonwood and willow growing along the current stream channel, and there are signs that this riparian vegetation may be capturing sands and gravels and promoting a build-up of the eroded channel. The instream habitat shows moderate levels of variation and structure. Large woody debris is uncommon, but pool and riffle habitat does exist. Beaver are now active on Indian Creek, and several dams can be found upstream of the Heart K Ranch.

Locals report that the fishery has still not recovered from historic cumulative impacts and the scouring floods of 1986 and 1997. Surveys of Indian Creek in Genesee Valley by the California Department of Fish and Game in the late 1980's, in late summer, reported warm water conditions (for a trout stream) and trout numbers and sizes that were "nothing to write home about."

Conditions in Indian Creek today support a moderately good trout fishery. Two recent fishing excursions on the Heart K Ranch in the fall of 2004 report success and give us some indication of the status of the trout fishery. One fisherman used worms and reported catching 8 rainbow trout, ranging in size from 10 inches to 16 inches. Another fisherman used dry flies, and reported catching 5 rainbow trout ranging in size from 13 to 15 inches, and 1 brown trout of 13 inches. The fly fisherman pursued trout for 3.5 hours, and we presume the worm fisherman was fishing for approximately the same period of time.

Potential Future Fishery (2005 and beyond)

The potential of the trout fishery in Indian Creek on the Heart K Ranch is excellent. If the habitat conditions improve, the trout fishery will undoubtedly improve with it.

The Nature Conservancy (TNC) and the Feather River Land Trust (FRLT) are partnering to manage and restore Indian Creek on the Heart K Ranch. The goal is to restore the aquatic and riparian habitat for the benefit of native fishes, amphibians, mammals, birds, and plants. The primary restoration tools are livestock exclusion fencing and beaver. TNC and FRLT plan to install and maintain fencing that exclude livestock from the stream corridor. This should allow rapid establishment and growth of willow shrubs and cottonwood trees. TNC and FRLT also plan to work with locals to stop the trapping and shooting of beaver on Indian Creek. The dam-building activity of beaver is predicted to make substantial improvements to instream habitat. TNC and FRLT also plan to create a catch-and-release fishery on the Heart K Ranch, where only single barbless hooks may be used.

TNC and FRLT predict that beaver dams and abundant riparian vegetation will improve fish habitat in Indian Creek. They expect riparian vegetation and beaver dams to capture sediment and promote a build-up of the stream channel. There should be compounding benefits associated with building-up the stream channel and creating habitat structure and variation through riparian plant development and beaver dam construction.

The watershed conditions of Indian Creek should support the development of an excellent trout fishery. The surrounding mountains provide cool and abundant summer flows in most years. The riparian vegetation is returning very quickly to the site, and there are already signs of sediment being captured by riparian vegetation and building-up the stream channel. Woody debris should return to the stream channel with moderate to high spring flows delivering dead wood, and the turn-over of riparian vegetation.

Conclusion

The information presented here consists of a rapid synthesis of existing and readily-available material. The information and conclusions should be considered hypotheses subject to modification based on new information and future studies.

Fish species for Indian Creek, Heart K Ranch, and the probability of their occurrence.

Note: Antelope Reservoir, located upstream of the Heart K Ranch on Indian Creek, supports an exotic warm-water fishery. The California Department of Fish and Game have stocked Antelope Reservoir with smallmouth bass, largemouth bass, and channel catfish, and many other species. Fishermen may also inadvertently release exotic baitfish into the reservoir. Spillover from the reservoir may release these non-native fishes into Indian Creek, and they may move downstream to the Heart K Ranch area. We do not have stream survey data to tell us how many of these warm-water exotic species occur seasonally or permanently in Indian Creek over the Heart K Ranch. The list here largely ignores the fish species derived from spillover from Antelope Reservoir, as we predict most warm-water species would not persist. The California Department of Fish and Game reports that in addition to the effect of Antelope Reservoir, fish have been introduced and moved around the Feather River Watershed so extensively that “you never know what you’ll find.”

Minnows, Cyprinidae Golden Shiner (<i>Notemigonus crysoleucas</i>) Non-native. High probability. Hardhead (<i>Mylopharodon conocephalus</i>) Native. High probability. Sacramento pikeminnow (<i>Ptychocheilus grandis</i>) Cyprinidae (minnow) Native. Moderate probability. Speckled dace (<i>Rhinichthys osculus</i>) Native. High probability.	Salmon and Trout, Salmonidae Rainbow trout (<i>Oncorhynchus mykiss</i>) Native, although genetic composition altered by hatchery strains. Confirmed. Brown trout (<i>Salmo trutta</i>) Non-native. Confirmed. Brook trout (<i>Salvelinus fontinalis</i>) Non-native. Moderate probability.
Suckers, Catostomidae Mountain sucker (<i>Catostomus platyrhynchus</i>) Non-native (introduced from Lahontan drainage into Red Clover Creek). High probability. Sacramento sucker (<i>Catostomus occidentalis</i>) Native. High probability.	Sculpins, Cottidae Riffle sculpin (<i>Cottus gulosus</i>) Native. Moderate probability.

Moyle, P. B., R. M. Yoshiyama, J. E. Williams, E. D. Wikramanayake. 1995. Fish Species of Special Concern in California. The Resources Agency: California Department of Fish and Game.

Moyle, P. B. 2002. Inland Fishes of California. University of California Press: Berkeley.

Moyle, P.B., R. M. Yoshiyama, R. A. Knapp. Status of Fish and Fisheries. Pages 953-973 in Sierra Nevada Ecosystem Project: Final Report to Congress, Vol II, Assessments and scientific basis for management options. Davis: University of California, Centers for Water and Wildland Resources, 1996.

Paul Hardy's Fishing Notes on Heart K Ranch

September 21, 2004

Time: 1230-1600. Weather: sky = sunny; wind = N, 5-15 mph; precipitation = none.

Fisherman: Paul Hardy, Feather River Land Trust

Fishing notes:

Trout: Fly-fished with size 10 grasshopper imitation (parachute pheasant hopper) the entire 3.5 hours. I covered the full length of Indian Creek, fishing upstream from the western to eastern boundary of the Heart K Property. Landed 6 trout: 5 rainbow trout, 1 brown trout. Trout varied in size from 13 inches to 15 inches (1 15" rainbow, 2 14" rainbows, 2 13" rainbows, 1 13" brown). 6 other trout rose to hopper, of which I hooked, but did not land, 3. All trout that rose to hopper and that I hooked seemed to be >10 inches long. Trout were healthy and fought vigorously. The trout that rose seemed very responsive to the hopper and many trout chased the hopper long distances (>2 feet) before taking.

Other Fish Species: I also landed 5-6 fish that I believe were hardheads (a large minnow species; *Mylopharodon conocephalus*). These fish could have also been Sacramento River squawfish (*Ptychocheilus grandis*), but I'm voting for hardheads. This species is very common on the Heart K Property, and I had approximately 40 rise to the hopper (could have caught >20). The individuals of this species that I landed ranged in size from 4 inches to 8 inches. Their large, pike-like mouths allowed them to take in the hopper. I also observed 5-10 large fish that I believe to be sucker species in the deep holes near the eastern edge of the property.

Observations and Impressions: Indian Creek has a very low gradient on the Heart K Property, and consequently, has a large number of slow, deep pools, lots of slack water, and relatively few riffles and runs. In addition, over-utilization and trampling by cattle have caused the stream bottom to become unnaturally wide in many places. In general, the western half of the property (namely, below the "bank swallow bank") contains less good trout habitat and the eastern half contains more good trout habitat (in the form of riffles, undercut banks, deep holes, etc.). 4 of the 6 trout that I landed were located above the bank swallow bank. In addition, 5 of the 6 trout that I landed were from within riffles, especially right at the point where riffles dropped off into deeper water. As a result of the low gradient and relative lack of holding water, I found myself walking a lot between good trout spots.

The biggest surprises of my fishing experience did not include the number of trout that I observed/caught, but rather, included the consistently large size of the fish, the relatively low number of trout I observed, and especially, the lack of small trout I observed. Given the responsiveness of trout to the hopper imitation, I would have expected small trout to also chase it. There just seemed to be very few (if any) small trout on the property. I don't know if the abundant hardheads are filling the niche of small trout and/or if the lack of good spawning gravel (lots of silty/sandy bottoms) precludes trout from spawning in the area, but it is an interesting phenomenon worthy of further investigation.

Other Ecological Observations:

I observed a great deal of beaver sign (chews, tracks) on the property and found two active dams on side channels. I also observed fresh bear tracks, an osprey, 2 belted kingfishers, 4 northern flickers, 2 orange-crowned warblers, 3 yellow warblers, 8 black-billed magpies, 1 downy woodpecker, 1 northern goshawk, 3 red-tailed hawks, 1 American kestrel, 1 common snipe, 20-25 American robins, 10-20 Brewer's blackbirds, 5 red-winged blackbirds, 4 common mergansers, 10-12 European starlings, 8 turkey vultures, 20-30 California quail, 1 black phoebe, 6-8 lesser goldfinches, 3 common ravens, 2 savannah sparrows, 6 western meadowlarks, 15-20 chipping sparrows, and 3 Stellar's jays on the property (25 bird species). Unfortunately, bull frogs were very common on the property.

Plants, in addition to various willow species and black cottonwoods, white alder was quite common on the eastern half of the property in the riparian zone. The riparian zone was quite overgrazed, with young willow shoots heavily impacted. Numerous fresh cow pies and tracks made it obvious that cows have been in the riparian zone for several weeks/months. Interestingly, however, I did not observe any cows along the creek during my fish.

Lots of standing water in side channels of upper 1/3 of property, coupled with good willow cover, make for some good willow flycatcher breeding habitat. Adult dragonflies were everywhere and a small (size 16) caddisfly hatch was starting as I left the creek.

Appendix D: Noxious Weed Management Plan

Yellow star thistle, Canada thistle, and bull thistle are all present at the Heart K Ranch and/or Taylor Lake (see report “Noxious Weeds at Heart K and Taylor Lake” below). Yellow star thistle currently covers approximately 300 acres of the property. Developing a long-term noxious weed management plan is important for the sustainable management of native species and rangelands at this property. The noxious weed management plan shall be developed and approved for implementation in 2009.

The noxious weed management plan shall include the following:

- Non-herbicide methods to control and/or eradicate star thistle, Canada thistle, and bull thistle
 - Describe the use of irrigation (amount, timing, duration) needed to increase soil moisture and reduce star thistle in pastures at the Heart K Ranch.
 - A monitoring plan to determine if weed management techniques are effective meeting stated goals
-

Noxious Weeds at Heart K and Taylor Lake

Prepared for: Paul Hardy
Feather River Land Trust

Prepared by: Jim Battagin, Butterfly Botanical Consultants

Date: August 13, 2007

Subject: **Noxious Weed Report from Botanical Survey of Taylor Lake and the Taylor Lake irrigation ditch in Genesee Valley**

Noxious weeds are becoming a major problem in some areas of the PNF. Generally, they are not found at the higher elevations, but that is not the case with Canada Thistle (*Cirsium arvense* or CIAR for short). It can be found at almost any elevation, usually in moist areas and sometimes in wetlands, especially seasonal wetlands. It has been located in a recent survey (August 2-3, 2007; Battagin) at Taylor Lake and associated with the Taylor Lake irrigation ditch in Genesee Valley.

CIAR is a very tenacious weed in that once it gets established, it sends out horizontal underground roots (rhizomes) and expands laterally, sometimes at an astonishing rate depending on the quality of the habitat. It also disperses a plethora of seed in the fall that is wind distributed much like dandelion. It was originally introduced from Europe and has been in the States for some years now, but has only more recently become more of a concern in the Plumas area. Not only does it (permanently?) push native plants from their habitats, but it also can cause extreme discomfort when touched due to its sharp spines.

As mentioned above, in a recent survey, 2 areas of concern with CIAR were identified. Each one will be discussed separately below.

Taylor Lake:

A relatively small area near the new outlet was surveyed. However, a quite impressive (fairly large, dense, healthy and in full flower) stand of CIAR was found along with a few stragglers nearby. When the new outlet was

created, some CIAR was spread around via rhizome sections. Now, not only is the original stand of CIAR expanding, but other avenues have also been inadvertently created. This scenario is typical of weed expansion throughout the world. The trick is to analyze the potential for a problem before any ground disturbance commences. In this way the best alternative for the situation can be employed taking all variables into account.

Since this stand of CIAR was in full flower, but not yet setting seed, I took the liberty of cutting off all the flower heads so at least it won't spread by seed in 2007. Now, what should be done in the future? First, it must be decided if eradication is desired. If so, what are the alternatives?

1. Dig it all up.

This is a very labor intensive method. Any missed tiny pieces of rhizome will grow into new plants; this method would probably take a few years and a lot of work to accomplish the task. Although it is environmentally clean, it does involve ground disturbance thereby exposing new areas to infection of weed seed.

2. Herbicides.

The herbicide known as Transline is typically used for thistles in general. It works well when used properly (when the weather conditions are correct and the species phenology is correct, and it is applied carefully, etc.). The first application would probably eliminate about 95% of the plants and a couple subsequent visits would kill the remainder.

3. Suffocation.

This method involves covering the stand with black or translucent plastic. Various forces combine to kill the covered plants (suffocation, heating, drying and probably others). As far as I know, this method has not yet been used on CIAR; it would be interesting to see if it works in one season. This method would only be practical in areas where the stand is dense...widely spread plants or small multiple stands would be difficult to eliminate using this method.

The “ditch” in Genesee Valley:

Several areas of infection by CIAR were found in and adjacent to the ditch west of the Heart K ranch house. Again the situation has been exasperated by recent human disturbance, in this case, logging. These areas are much more extensive and will require patience and diligence if eradication is attempted. Although 3 methods of eradication were discussed above, only the use of herbicides seems a practical alternative for these extensive areas.

If the decision is made to attempt to eradicate CIAR in these areas, the first step would be to survey, flag, map and, where needed, describe the various polygons of CIAR. The magnitude of the problem would then become more apparent and appropriate action (or non-action) could then be discussed.

Appendix E: Other Research and Monitoring

Long-term monitoring and research will inform management decisions for the Heart K Ranch. FRLT will encourage research use of the property where it is compatible with FRLT/Heart K uses, policies, and procedures.

Monitoring will be implemented at several scales using a combination of historical data, photo points, and site visits. Detailed plans for monitoring grazing, riparian habitat, and noxious weeds will be developed for implementation in 2009.

Active participation in monitoring will be encouraged and facilitated with students from Greenville Highschool, Feather River College, other local schools, and other colleges.

Appendix F: Workplans from Previous Years

Original Work plan, dated September 22, 2004

Experts we seek to talk to, and lead person(s):

1. Mike Kossow (Paul Hardy and FRLT).
2. At least 3 local residents (Paul Hardy and FRLT).
3. Current and retired Fish and Game biologists (Jim Gaither).
4. Other experts or sources of information (Jim Gaither).

Key questions:

1. What experience do you have fishing, or surveying the fishery, on Indian Creek at or very close to the Heart K Ranch?
2. How would you describe the quality of the fishery, today and in the past?
3. How many fish, what size, what type, and what season characterize your experience of this fishery?
4. Do you think the fishery has the potential to improve on Indian Creek at or very close to the Heart K Ranch?
5. What needs to happen to make the fishery improve?

Report:

Jim Gaither will draft a report based on the information gathered. Jim will gather information from Paul and FRLT verbally, or in writing if they keep notes on their discussions.

Completion date:

FRIDAY, OCTOBER 8, 2004

Appendix G: Recreation Plan for Property

The Heart K Ranch and Taylor Lake provide a range of recreational activities, including bird watching, canoeing, fishing, hiking, biking, organized retreats, and hunting. As demand for recreational use of these properties increases, it is critical that a cohesive recreation plan and use policies be developed. This plan shall include policies for day use and facilities rental. This plan shall be developed for FRLT Board approval by September, 2008.

The Recreation Plan shall address the following:

- Clear policies are needed for the use of the HK Ranch. These policies shall address day use/recreational use and facilities rental and be consistent with FRLT liability insurance and risk management strategies.
- Hunting and fishing policies need to be clarified. Options to explore include: a) limited hunting use (fee and non-fee), b) making HK a State Game Refuge, c) fishing policies. Use hunting/fishing models from other land trusts as appropriate.
- Several policies were generally agreed upon by the HK Committee: No Fires, No Smoking, No camping, No Vehicles off main roads, No Garbage Service, Users are encouraged to be FRLT members, No Restrooms for Day use. Additional policies shall be developed in FY '08
- A maximum group size needs to be determined- if that group size is exceeded, they will need to contact FRLT prior to visiting the property
- Fencing needs to incorporate public use including access points, canoe use (fences across Indian Creek), and public safety (electric fencing).

Appendix H: Education Strategy for Property

All educational activities are to be compatible with the Heart K day use and facility use policies and procedures. All education uses will be done in coordination with necessary FRLT staff.

Heart K Education Strategy for 2008:

- Conduct and facilitate educational field trips and activities on the property.
- Facilitate ongoing research and monitoring projects by students and the public.
- Develop a long-term education plan for property which is compatible with FRLT/HK policies and procedures.
- Promote the Heart K as a Learning Landscape, accessible to the education community, locally and statewide.

Appendix I: Grazing Plan for Property

The Heart K Ranch has been grazed for decades under several past ownerships. Currently, the ranch is grazed by the Neff Ranch under a lease with the Feather River Land Trust. Grazing occurs on 500 acres dispersed over 9 pastures, each separated with barbed wire. Some pastures have water on-site while others use Indian Creek as a water source. Grazing is complex at the Heart K Ranch and developing a long term grazing strategy needs integrated with Heart K recreation, water management, and weed management strategies. Much of the issues regarding both water and fencing are tied to Prop 50 funding which has not been received- these funds are needed to explore fencing, irrigation, and water management options. Until these funds are received and other strategies (recreation, water management, water transfer) are developed, we propose an interim grazing plan, which will be the most recent Neff Ranch grazing lease (see 2007 Neff Ranch Grazing Lease). Once integrated water, weed, and recreation management strategies are developed, an updated grazing plan will be developed and submitted to the board for separate approval. It is anticipated that this grazing plan will be completed for the 2009 or 2010 grazing season, depending on prop 50 funding availability.

In general, the grazing plan for the Heart K Ranch will incorporate the following principles:

- Demonstrate the compatibility of ranching and ecosystem integrity.
- The grazing plan will incorporate protection of riparian areas, particularly along Indian Creek by excluding cattle from these areas via new fence construction and/or existing fence repair/relocation.
- Reliable, adequate offsite water sources will be developed prior to fencing off Indian Creek from cattle.
- Grazing plan will be compatible with ecological, recreational, educational, and water management policies of the property, and vice versa.
- Over the long term FRLT will consider getting the HK rangelands certified as organic if fiscally and logistically compatible with other HK/FRLT uses and policies.
- Grazing at HK will done in such a way to produce a positive net economic benefit to the FRLT.

Appendix J: Water Management

Sustainable management of water and water rights at the Heart K should be a key focus of the Feather River Land Trust. Currently, the water flowing through Indian Creek and from Taylor Lake provides needed in stream flows to maintain aquatic and riparian habitats at the HK Ranch and beyond. This water can also provide irrigation to help enhance grass growth, increase forage for wildlife and livestock, and reduce the cover of star thistle within pasture areas. Finally, potential transfer of portions of this water to downstream users may provide substantial revenue, which can be reinvested into the ranch and/or other FRLT properties and programs.

Currently, the management of water at Heart K is made difficult by several factors including out of date, deteriorated irrigation infrastructure. The diversion area, pipe, ditch, and irrigation systems do not efficiently transport water. A lot of water is lost through leakage from the ditch, which has been a source of frustration from homeowners in the Red Clover Estate subdivision, where the ditch runs before reaching the main ranch and pastures. Within the Proposition 50 grant, there is specific funding to study water rights, uses, and irrigation options on the Heart K Ranch. As this funding is not yet available, we propose an interim water management strategy. A final plan will be developed based on the findings from the prop 50 study. Important information on HK water can be found in the document titled “Water on the Heart K Ranch: Analysis of Rights and Infrastructure” below.

Interim Water Management Strategy:

- Maintain adequate in stream flow within Indian Creek to support aquatic and riparian habitats and species.
- Provide water to livestock as agreed upon in the current grazing lease
- Continue research on water rights and water transfer use this information to develop a refined water transfer policy
- Develop more efficient alternatives for irrigation other than using the existing ditch system
- Insure that water management strategy is compatible with other FRLT/Heart K uses and policies

Water on the Heart K Ranch: Analysis of Rights and Infrastructure

Prepared by Andrew E. Scavullo, TNC and FRLT Intern, July 2004

The water rights conveyed to the Heart K Ranch and other lands along Indian Creek are laid out in the “Indian Creek Decree”, decree #4185 dated 12-19-1950, issued by Superior Court of Plumas County. Water rights to the property were previously reviewed in an appraisal by Wright, Warren & Schiffmacher, LLC, dated 9-12-01. The Decree identifies four water user groups along Indian Creek. The Heart K Ranch and other properties within Genessee Valley are part of the Indian Creek and Genessee Valley (ICGV) group which is located farthest upstream. The ICGV group’s water rights are inferior to the rights of the other three downstream groups. For all four user groups water rights fall into several classes: Special, 1st, 2nd, 3rd, and Surplus. Properties usually own rights in several classes ie., 1 cubic foot per second (cfs) in 1st class rights and 4.3 cfs in 2nd class rights. When the natural flow of Indian Creek is insufficient to supply water to all rights a pro-rated apportionment system goes into effect. In time of drought, 3rd class rights are the first to be prorated by users until the time that they are lost completely followed by 2nd class and ultimately 1st class rights in times of extreme shortage. Because the ICGV group is inferior to the other three, the ICGV group loses water first and theoretically would lose all its rights before a 3rd class prorating went into effect for downstream groups.

The combined water rights of the Heart K Ranch include 1st and 2nd class rights from diversion 36 on Indian Creek located off the property, 2 “special rights” to small springs (the Davis and Genessee School springs, diversion points 106 and 143) as well as “surplus rights” to 200 acre feet of water in Taylor Lake at the head of Hungry Creek (diversion 1). As identified by Schedule 2 of the Decree, it appears that the springs are not located adjacent to, but not on the property. The 80 acre Taylor Lake parcel is part of the Heart K. From diversion point 36 water enters an

aging 2000-foot flume system and then enters an irrigation ditch which branches to supply water to the pastures via natural flood. The flume/ditch system crosses several properties en-route to the Heart K however only Gonzalez and Jones have rights to water in the system.

Source Name	Diversion Point	Total Allotment	1st class	2nd class	Acres Irrigated
Indian Creek	36	5.28 cfs	.78 cfs	4.5 cfs	362.9
Lake Taylor	1	200 acre feet	-	-	-
Davis Spring	106	.15 cfs	-	-	2
Genessee School Spring	143	.001 cfs	-	-	-

Gonzalez, Gonzalo (146 acre parcel owns 20% of water)	36	1.06* cfs	.16*cfs	.9* cfs	72.5*
Jones, Sam (formerly P.R. Evans)	36 and 37	.22* cfs	.02 cfs	.20 cfs	14.1

Other users: * Subtract values from Heart K totals in above table

For purposes of interpreting the Decree, the current Heart K Ranch is comprised of lands and water rights formerly owned by J. LaRue Robinson and Elizabeth Evans Robinson as well as the old Davis Ranch owned by John Davis and Evelyn Cunningham. At the time of the Decree, 362.9 acres of the Heart K Ranch (formerly Robinson) were identified for irrigation from diversion point 36. A recent sale of parcels 23 and 24 totaling 146 acres at the eastern end of the Ranch to Gonzalo Gonzalez contains 20% of the Heart K's irrigable land (72.5 acres out of 362.9) and thus 20% of the Heart K water from diversion 36 as described in the Decree is now owned by Gonzalez. Sam Jones (formerly P.R. Evans) is the current owner of a parcel upstream of the Heart K and owns rights to a small quantity of water supplied by diversion points 36 and 37 which are both along Indian Creek behind his property. It appears that Jones is entitled to .22 cfs coming from **either** diversion point. Diversion 37 is not utilized by any other land owner and was not readily apparent along the creek as of this writing. It is peculiar that 2 diversion points are specified to deliver such an insubstantial volume of water. The 2,200-foot long flume and a portion of the irrigation ditch cross Jones's property. The terms of any easement with Jones or with any other landowners in the Red Clover Creek subdivision are unknown at time of writing. While no subdivision owners have water rights to the ditch, infiltration of ditch water has had the effect of changing the hydrology of the areas surrounding the ditch, namely making them notably wetter and promoting plant growth.

Timing and use of water on the Heart K are defined in the Decree and are seemingly very "common sense". 1st class and special rights are available for use all year while 2nd class allotments can only be drawn from March 1 to October 31. Given that the irrigation season usually falls between May 1 and September 20 and that the rainy season often runs through April 30 I don't interpret the timing criteria to constitute a significant constraint. Acceptable beneficial uses of water include municipal, domestic, stock-watering, power, mining, fish culture and irrigation. According to the Decree impoundment into Taylor Lake can occur from October 1 to June 30. Diversions from the lake can be used for stock watering or domestic use throughout the year, but irrigation can only occur between March 1 and November 15. Given that the low dam is currently leaking and any spillway for intentional diversion is not functional it appears that Taylor Lake is not in a condition to be managed as a strategic water source. All water rights owners are free to time their use as they see fit within the described season of use. The Heart K has a special stipulation that it can draw all the water it wants for "beneficial use" provided that over any 90 day interval it has not

used more than a volume equivalent to a 90 day continuous supply of its defined allotment. This constitutes significant freedom to use large pulses of water that temporarily exceed the allotment. The Decree states that the Heart K may divert at twice their 2nd class allotment when the combined flows of Ward Creek and Indian Creek exceeds all 1st and 2nd class rights for diversion 36 and diversions 41, 42, 43 and 44 of the Grace Ranch. This potential doubling of 2nd class allotment could go into effect when the Watermaster judges that such flows are occurring and could constitute a significant right to large volumes of water.

In a final analysis, the Genesee School Spring water right for domestic use translates to roughly .5 gallons per minute and it's not even clear that spring is extant or on the property. The Davis Spring right amounts to 72 gallons per minute and the spring currently flows forth in an old orchard area and adds significant value to the property. However, the Decree is not clear whether the Davis Spring is actually on the property. The Taylor Lake right to store and release 200 acre feet is equal to releasing a flow of 5 cfs for approximately 20 days which is not negligible, but pales in comparison to the right to 5.28 cfs from diversion 36 valid for nearly 240 days. The vast majority of the water rights owned by the Heart K come from Indian Creek at diversion 36. Gonzalo Gonzalez's claim to 20% of the water rights is likely valid and begs the question, is he liable for 20% of any delivery infrastructure costs? Apparently Gonzalez has been granted a new diversion point but has not developed it.

Taylor Lake, Genesee School Spring, and Davis Spring are currently not utilized in a strategic way. The aging flume system that originates at diversion point 36 is in disrepair but does seem to be delivering approximately 5 cfs to the ditch at time of writing. However, upon entering the ditch water is clearly being lost to infiltration and water loving plants. Upon arriving at the Heart K approximately 1 cfs remains, roughly 20% of the flume-flow. Furthermore the pastures nearest the top of the ditch receive unnecessarily heavy flows that may not qualify as "beneficial use" while lower pastures are currently not receiving any flow. As stated in the Decree on page 11 paragraph 26, no claimant has the right, "at any time to divert a quantity of water in excess of the amount reasonably necessary for, and actually applied to, reasonable beneficial use...." It is not clear if ditches even extend to the lower pastures anymore, a primary motivation for Gonzalez's application for a new diversion point. The total allotment from diversion 36 taking into account the quantities lost to Jones and Gonzalez, if diverted at the allotted 1st and 2nd class rates for the entire permissible season and transported without loss to the 290 acres of designated irrigation land on the Heart K would provide enough water to cover those 290 acres to a total depth of 6-feet 9-inches. In other words, the entire yearly allotment of Heart K water is an equivalent of almost 7-feet of rain per acre falling on the designated irrigable land. This is a huge water allotment, far beyond any practical irrigation needs for the pastures. There would seemingly be plenty of room to both redirect a significant flow back into Indian Creek and adequately irrigate the pastures. The potential to use this seemingly enormous water allotment for habitat restoration including riparian management is striking. Also, the energy content of the flowing flume water is not trivial and the opportunity for a small scale hydro-electric generation facility at the end of the flume is very real.

Finally, the Decree identifies the irrigable acres on the parcel map to a low scale of resolution. The Heart K currently contains 290.4 irrigable acres as defined in Schedule 1 of the Decree's Depiction of Places of Use of Allotments From Indian Creek Stream System (see attached map). Gonzalez acquired 72.5 irrigable acres of the original 362.9. Sections to receive irrigation are specified to the 1/16th scale (40 acres) and then irrigable acreage within that 1/16th section will often be listed as something less than the full 40 acres. An example from the Decree that pertains to the Heart K is the designation of a 1/16th section that straddles Indian Creek. According to the Decree the 40 acre area located at the NW ¼ of the SW ¼ of Section 2 on the parcel map contains 21.8 irrigable acres. This raises the question as to whether the water rights extend to the far side of the creek. Can only 21.8 acres be irrigated within that 1/16th section? Do the 21.8 acres have to be located on the North side of the creek?

Associated Maps on File at FRLT Office: Water rights map as defined by Schedule 1 of the Decree. Numbers are the acres with water rights within the broader areas defined by 1/16th sections. Two rights on the eastern edge of the property are not shown in the previous report by Wright, Warren et al. Gonzalez's land appears at the far west of the map and the rights to water from 2 springs are located as defined in the Decree, but may not reflect on the ground locations.

Appendix K: Management Buildings and Structures at Heart K Property

There are several structures on the Heart K Ranch. The Main House and barn are in working order, though several other structures are in disrepair. The assessment by Jeff Glover (below) outlines several issues with many of the structures. In 2008, the FRLT needs to determine how different buildings will be used and what type of work needs to be done to get them ready for that use. All uses shall be compatible with FRLT/Heart K policies and procedures.

Notes from Jeff Glover Visit to Heart K Ranch

On 3/30/05, Jeff Glover, a licensed building contractor, joined Mike Yost, Betsy Kraemer, and Paul Hardy on an assessment of many of the improvements on the Heart K Ranch. I summarize his observations and recommendations below.

Main House

- The electrical wiring system has been recently replaced and is in good shape.
- There is relatively new, blown-in insulation in the attic.
- Vents in attic look good.
- Shake shingle roofing is getting old, but will last another 5-10 years (could spray roof with “Cevron Shingle Oil” to protect it).
- Jeff thought wood stove was probably functional and o.k. to leave as is (contrary to Bill Battagin’s opinion).
- Jeff thought we could rent the place, largely “as-is”, for \$1,000-\$1,400/month.
- *Pre-rental Recommendation: install a wood railing on the staircase (est. cost = \$750 w/ labor; \$250 if labor is donated).*
- *Pre-rental Recommendation: trim-out the unfinished upstairs windows (est. cost = \$1,000 for all of them w/ labor; \$250 if labor is donated).*
- *Pre-rental Recommendation: fix snow-damaged electrical line and support post for pump house (est. cost = \$200 w/ labor; \$50 if labor donated). TNC would likely pay for this.*
- *Pre-rental Recommendation: master bedroom doors (which open into “mid-air”) are a liability issue; bolt in a steel railing of some sort to mitigate risk (no cost est. given by Jeff; I estimate \$500 w/ labor; \$100 if labor donated).*
- *Pre-rental Recommendation: install range top in kitchen (no cost est. given by Jeff; I estimate \$60; I feel like the “Price is Right”!).*
- *Pre-rental Recommendation: test pump and well water quality (Jeff mentioned Enrici (sp.?) Water Lab in Butterfly Valley for water quality testing; no cost est. given by Jeff; I estimate \$300).*
- *Pre-rental Recommendation: check w/ County Health Department for septic permit.*
- **Total est. costs for implementation of pre-rental recommendations = \$2,810 w/ professional labor; \$1,010 w/ donated labor.**

Big Red Barn near Main House

- Work with David Schramel to mill a couple big support and foundational beams (*my guesstimate on cost = \$1,500 w/ labor; \$500 if labor donated*).
- Install metal roofing where it’s missing (*est. cost = ca. 100 ft.² @ \$2/ft.² = ca. \$200 w/o professional labor; ca. \$400 w/ labor*).
- Mike Yost: Could you fill in here? Betsy and I weren’t with you when you looked at the barn.
- **Total est. costs for implementation of pre-rental recommendations = \$1,900 w/ labor; \$900 w/ donated labor.**

Davis House

- Has a pier block foundation.
- Has relatively new ABS plumbing.
- Has adequate electrical wiring.
- The front porch wants to buckle at decking line (if we're going to keep it in the long run, this will need to be addressed).
- Has hand dug well w/ surface mount pump (fairly primitive).
- Jeff thinks we could charge \$750-\$800/mo. to rent this place, basically "as-is".
- If we're going to own the place in the long-term, we'll eventually want to put in a concrete foundation and new windows (est. total cost = \$30,000 – \$40,000).
- *Pre-rental Recommendation: paint the outside of the house (est. cost = \$1,500 to \$2,000 if professional does it; volunteers could do prep work). Note that Jeff thinks we could get away with not painting the place for a couple more years if need-be and still be able to rent it.*
- *Pre-rental Recommendation: test pump and well water quality (Jeff mentioned Enrici (sp.?) Water Lab in Butterfly Valley for water quality testing; no cost est. given by Jeff; I estimate \$300).*
- *Recommendation: check w/ County Health Department for septic permit.*
- **Total est. costs for implementation of pre-rental recommendations = \$1,800 to \$2,300 w/ labor; \$300 if no painting.**

Davis Barn

- *Recommendation (ASAP): put locks on barn doors (3) to discourage looting and vandalism (est. cost = \$25).*
- *Recommendation (ASAP): have volunteers clean up interior of barn.*
- *Recommendation (ASAP): replace missing metal roofing by installing a couple of new sections on south roof (est. cost = ca. 100 ft.² @ \$2/ft.² = \$200 w/o professional labor; \$500 w/ labor).*
- *Recommendation (ASAP): take front roof and overhang down (probably rebuild at later date; rebuilding cost would be ca. \$1,500 with labor).*
- *Recommendation (next year or longer term): replace south roofing w/ metal (estimated cost = \$1,400 w/ labor).*
- *Recommendation (next year or longer term): replace "batts" on exterior walls (no cost estimate given).*
- **Total est. costs for ASAP recommendations = \$525 w/ labor; \$225 w/o labor (but if decide to replace overhanging roof, cost would be up to \$2,525).**

Davis Shed

- *Recommendation (ASAP): tear down collapsing roof and rebuild it (some of exterior walls will need to be improved or replaced as well; no cost estimate given; could probably do much w/ volunteers; this is a safety issue for any renters of the Davis House; **est. cost up to \$400 w/ labor and \$100 w/o donated labor**).*

Caretaker's (Manager's) House

- Foundation looks very solid.
- Plumbing looks good.
- Electrical wiring adequate.
- Roofing will last several years.
- Well in decent shape and has submersible pump.
- Jeff thought we could rent place, basically "as-is", for ca. \$1,000/mo. Note that this house was in a lot better shape than Jeff expected (although we could not get inside).
- *Fix side door and door frame (est. cost = \$300 w/ labor; \$75 w/ donated labor).*

- *Pre-rental Recommendation: mold could be an issue due to persistent moisture under house. Contact Trina re: her experience and have a mold test done (Jeff recommends “Matt ____?” in Chester; could also use Terminex or another pest control company; no cost estimate given by Jeff; I estimate \$500).*
- *Pre-rental Recommendation: test pump and well water quality (Jeff mentioned Enrici (sp.?) Water Lab in Butterfly Valley for water quality testing; no cost est. given by Jeff; I estimate \$300).*
- *Recommendation: check w/ County Health Department for septic permit.*
- **Total est. costs for pre-rental recommendations = \$1,100 w/ labor; \$875 w/o donated labor.**

TOTAL ESTIMATED COSTS: \$8,535 OR \$10,035 W/ PROFESSIONAL LABOR; \$3,410 W/ DONATED PROFESSIONAL LABOR. NOTE THAT ESTIMATED COSTS ONLY COVER MATERIALS AND NON-STAFF LABOR (FRLT STAFF TIME NOT INCORPORATED INTO ESTIMATED COSTS).

LOOKS LIKE WE SHOULD GO WITH DONATED PROFESSIONAL LABOR WHEN POSSIBLE!

Appendix L: Heart K contact list (May 2008)

HEART K RANCH

Main House (530) 284-1483

THE NATURE CONSERVANCY

Henry Little	(415) 281-0406	hlittle@tnc.org
Greg Low	(775) 322-4990x19	
	(775) 742-7627 Cell	glow@tnc.org

PLANNING & OVERSIGHT COMMITTEE

Trina Cunningham	(530) 284-7440 home	
	(530) 284-6618 work	maidu@frontiernet.net
Paul Hardy	(530) 283-5758 (Coordinator)	phardy@frlt.org
Betsy Kraemer	(530) 284-6054 (Coordinator)	
	(530) 284-6600 fax	ebentz@psln.com
Susan Payne	(530) 283-5758	
	(530) 283-5745 fax	spayne@frlt.org
Mike Yost	(530) 284-6649	msyost@frontiernet.net

CONSULTANT

Joyce Paczynski	(530) 284-7923	joycep@frontiernet.net
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ADVISORS

Bill & Denise Battagin	(530) 284-1041	frenergy@psln.com
Farrell Cunningham	(530) 284-6866 (Roundhouse Council)	
Marv Cunningham	(530) 284-6665	
Jeff Glover	(530) 284-6190	bigandfriendly@frontiernet.net
Jeanenne Hafen	(530) 284-1652	jhafen@psln.com
Michael Jackson	(530) 283-0712	
Mike Kossow	(530) 284-6589	mbcs@frontiernet.net
Curtis Knight	(530) 926-3755	
Diane McCombs	(530) 284-6614	wilmcc@psln.com
Nancy Neer	(530) 284-7929	
Toby Tolen	(530) 284-0903	
	(530) 284-0904	
Jim Wilcox	(530) 284-6614	wilmcc@psln.com
Leah Wills	(530) 284-7294	leah2u@frontiernet.net
Richard Flint	(530) 533-9467	

(Fisheries Biologist, Ca Dept of Fish and Game, 56 Highlands Blvd, Oroville, CA 95966)

NEIGHBORS

Elisa Adler	(530) 284-7575	elisaadler@earthlink.com
Bob Beckwith	(530) 283-0967	
Gonzolo Gonzalez	(415) 468-8542	
Mike & Quin Johnson	(530) 284-6127	
Sam & Candy Jones	(530) 284-7157	
	(707) 526-1219	
Darel Joseph	(530) 284-6666	
Red Clover Creek Recreation Assc.		
	(530) 284-6054	

NEFF RANCH

Paul Neff	(530) 284-6422	paul@servants-heart.net
Ed & Alicia Hammerich	(530) 284-6371 NFR & FAX	
		nfrnaturalbeef@hotmail.com
Destry & Marchel Wolverton	(530) 284-7133	

JONES RANCH CARETAKER

Gary Boatright	(530) 284-4848
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IRRIGATION PIPELINE WELDER

Glenn Gallagher	(530) 284-6079
	(530) 284-0995 Fax

HEART K PUMP INFORMATION

Information contained on pump in NW field (Pasture 1 adjacent to Gonzolaz Property):

Tulane Pump
530 673-3450
720 Bridgeway
Yuba City

Layne & Bowler Pump
30 hp
220 – 440 V
SN 7772

Spoke with Tim at above number and found that they are still in the business of repairing pumps and remember working at the Heart K. BK 050104

BARN RESTORATION CONSULTANTS

Bruce Livingston	(530) 284-6244
Jim Webster	(530) 283-1111
Scott Stirling	(530) 283-1617

Jim Shaber

(530) 283-2826

CONTRACTORS

Charles Ashmore (530) 283-3571 (Electrician)

(530) 283-0131

Michael Banchio (530) 284-0864

Donald Aitkens (530) 284-7480

CONSULTANTS

Walter Medley (530) 284-6519

(Electrician who worked with Reininghaus on wiring the
Main House at the HK)

HISTORIAN

Ann Harrigan (530) 284-7785 3ath@frontiernet.net

REININGHAUS

Carol Reininghaus (360) 466-1616 Washington
(480) 899-9989 Arizona
(360) 333-7171 Cell (*current 08/04/2008*)
(520) 455-5725 fax

P.O Box 450

Sonoita, AZ 85637 (*address as of 08/04/2008*)

GARR

Richard Hathaway (530) 458-7619

(530) 458-5844

(Mrs. Garr's grandson)

PO Box 410, Colusa CA 95932 (?)

LOGGERS

Claude Sanders (530) 836-1923

Warren Gorbet (530) 284-6292

WRITERS

Jane Braxton Little (530) 284-6209

Alicia Knadler (530) 284-7585

VOLUNTEER COORDINATORS

Jason Moghaddas (530) 283-5758

jmoghaddas@frlt.org

Allison O'Brien (530) 283-5758

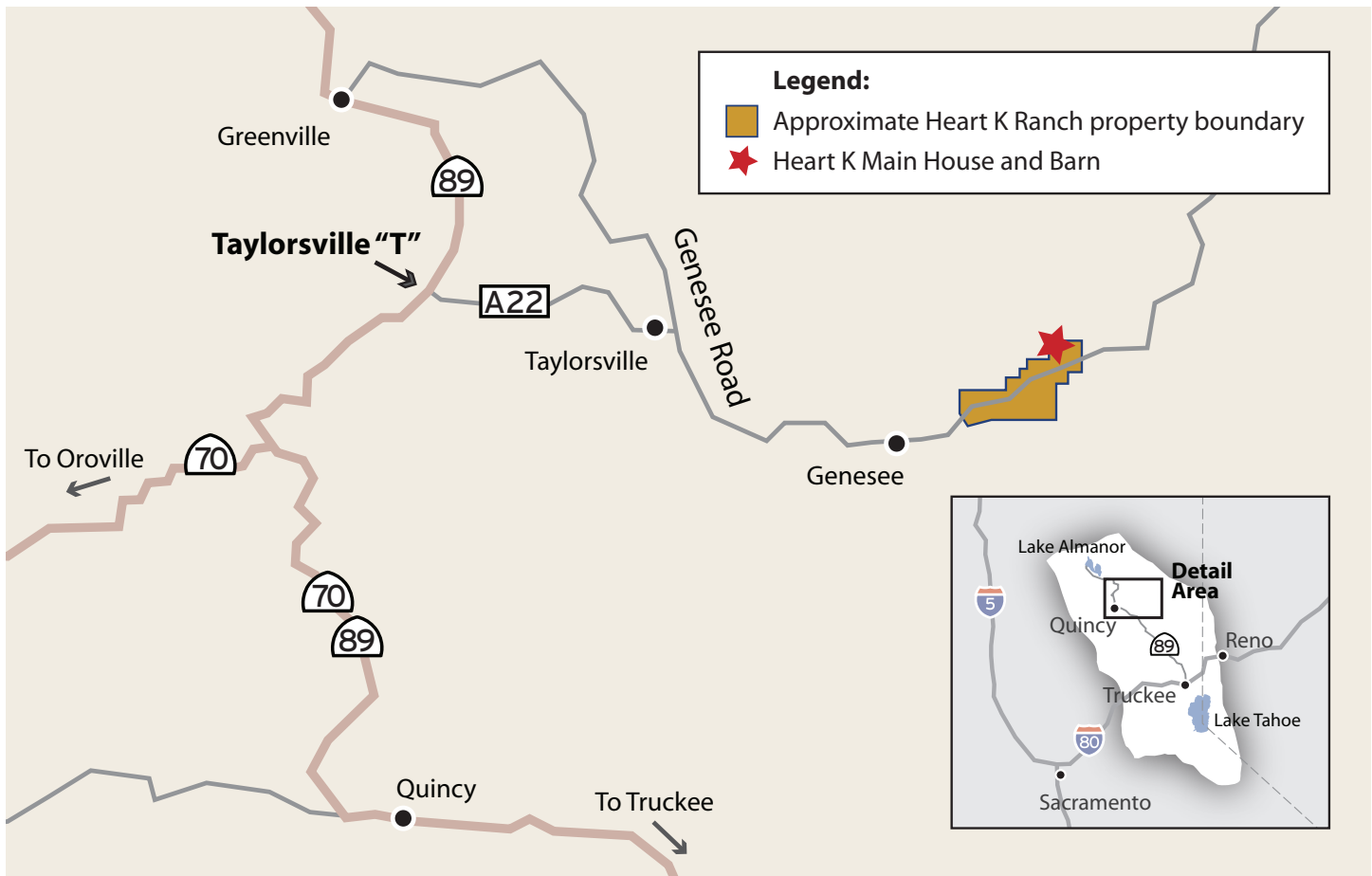
aobrien@frlt.org

TERMINEX INSPECTOR

Doug Grant 800/452-6216
(530) 624-5916 cell
(530) 343- 9498

tmx2168@terminex.com

Heart K Ranch - Map & Directions



Heart K Ranch is about 2.5 hours from Truckee

From I-80 take the CA-89N exit toward Sierraville/Loyalton.

Take CA-89N approximately 46 miles.

Turn left onto CA-70-89W and follow for 23 miles until you reach Quincy.

From Quincy continue on CA-70-89W for ten miles until you reach CA-89.

Turn right onto CA-89 (towards Greenville and Lake Almanor) and follow for 6 miles.

Turn right onto Arlington Road/A22 towards Taylorsville.

Heart K Ranch is approximately 15 miles from the intersection of CA-89 and A22 (aka the Taylorsville "T")


Follow A22 through Taylorsville, approximately 5 miles.

Bear right onto Genesee Road and follow for 9 miles.


Heart K Ranch will be on the left (look for the big red barn.)

Feather Land Trust: Chistmas Tree;
Dead, Dying, or Diseased' Fuelwood or
Split Products Exemption.
Proposed Treatment Areas
Detailed View


Legend


 Feather River LT Owned Parcels with APN


Treatment


 DDD; Fuelwood Location of Exemption Area with Acres

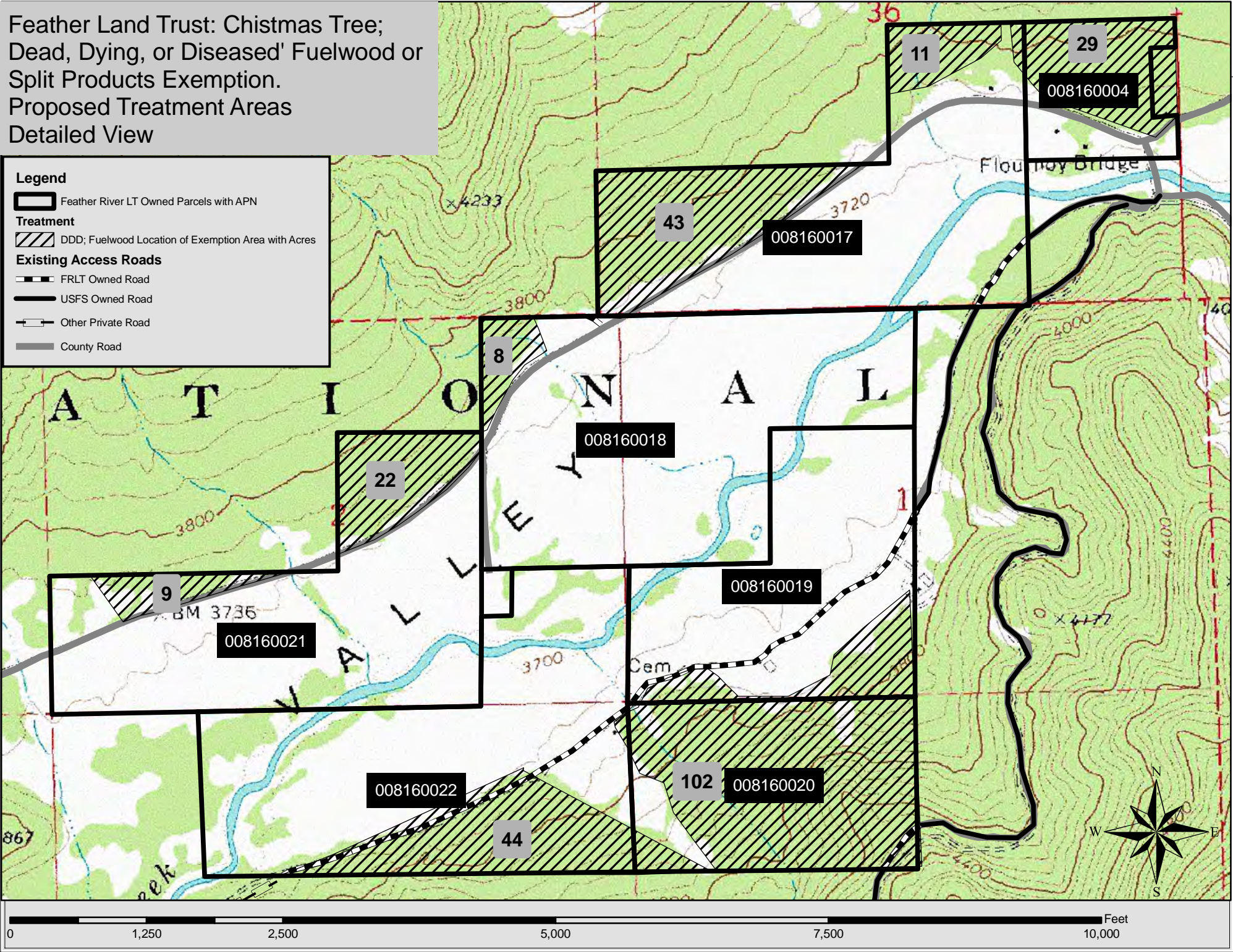
Existing Access Roads

 FRLT Owned Road

 USFS Owned Road

 Other Private Road

 County Road




Feather Land Trust: Christmas Tree;
Dead, Dying, or Diseased' Fuelwood or
Split Products Exemption.
Proposed Treatment Areas
1:24,000 Scale

Legend

 Feather River LT Owned Parcels


Treatment


 DDD; Fuelwood Location of Exemption Area with Acres

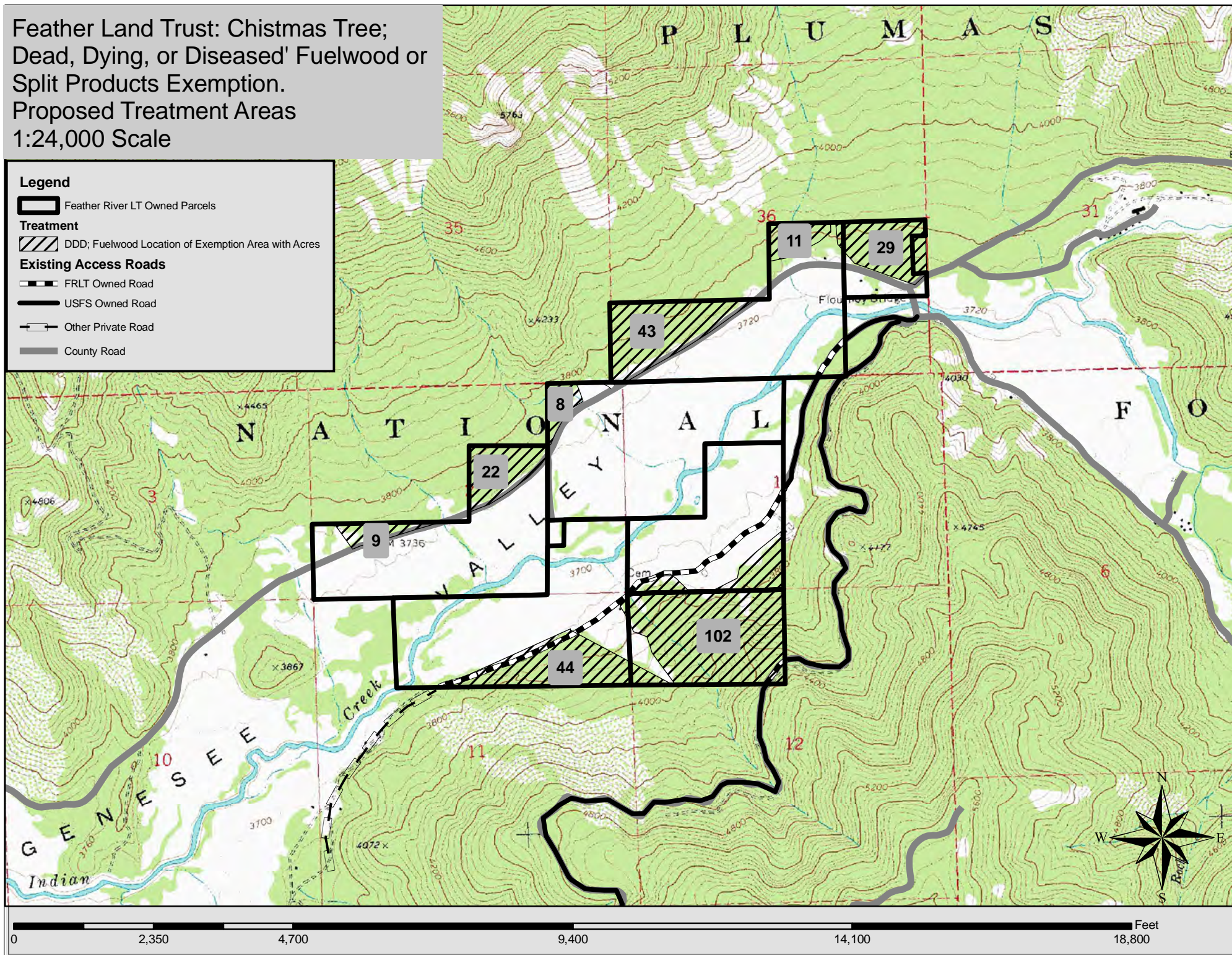
Existing Access Roads

 FRLT Owned Road

 USFS Owned Road

 Other Private Road

 County Road



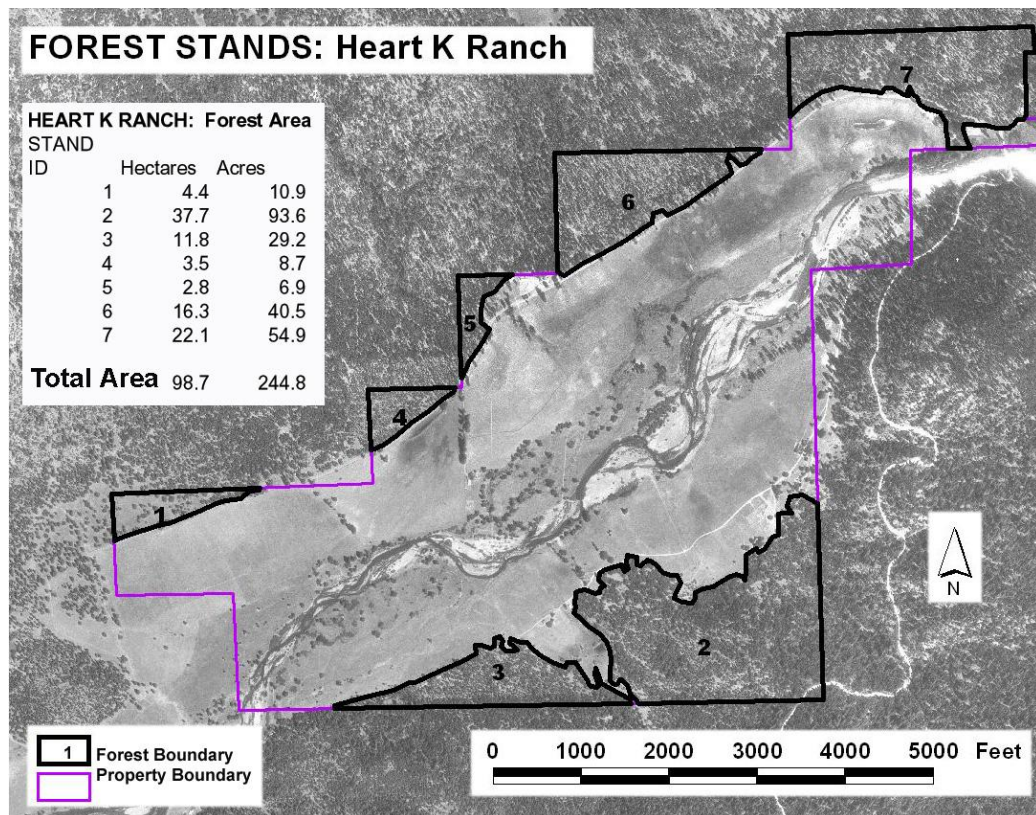


Heart K Forest Health



Photo by Bud Turner

The 884-acre Ranch has oak and pine forests and riparian woodland.



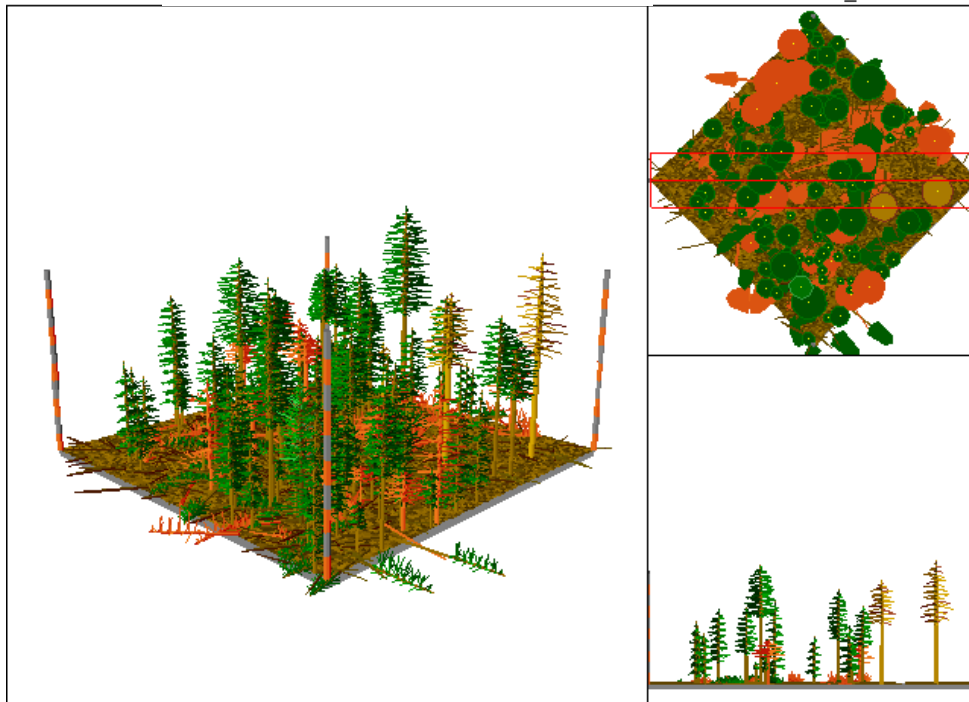
In 2009, a Sierra Business Council grant funded a carbon inventory project. The 86 study plots provide valuable baseline information for the management of Heart K forests.



Heart K Forest Health

Stand=3 Year=2012 Before thinning

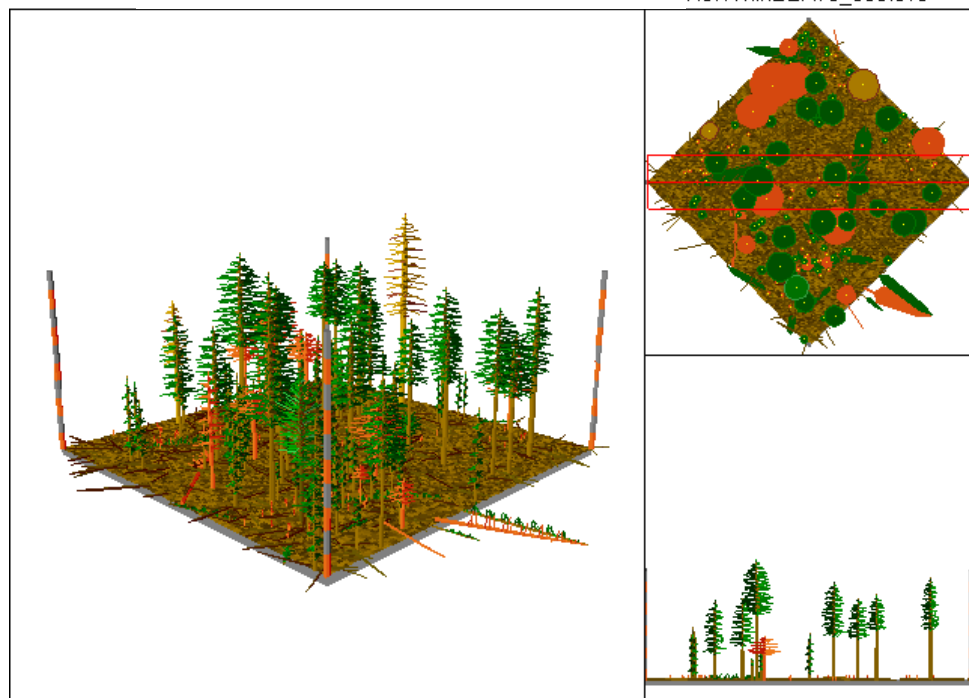
NewThinBBA75_082.svs



Forest Vegetation Simulator (FVS) model of the condition of stand 3 today.

Stand=3 Year=2013 After thinning

NewThinBBA75_083.svs



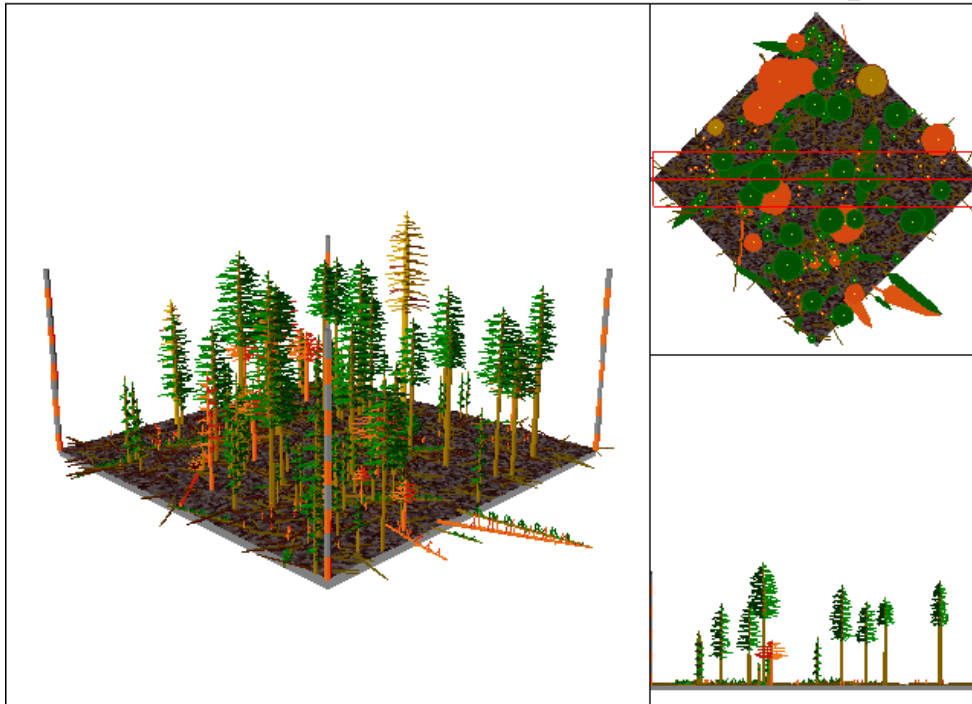
FVS model of the condition of stand 3 after thinning.



Heart K Forest Health

Stand=3 Year=2014 After burning piles

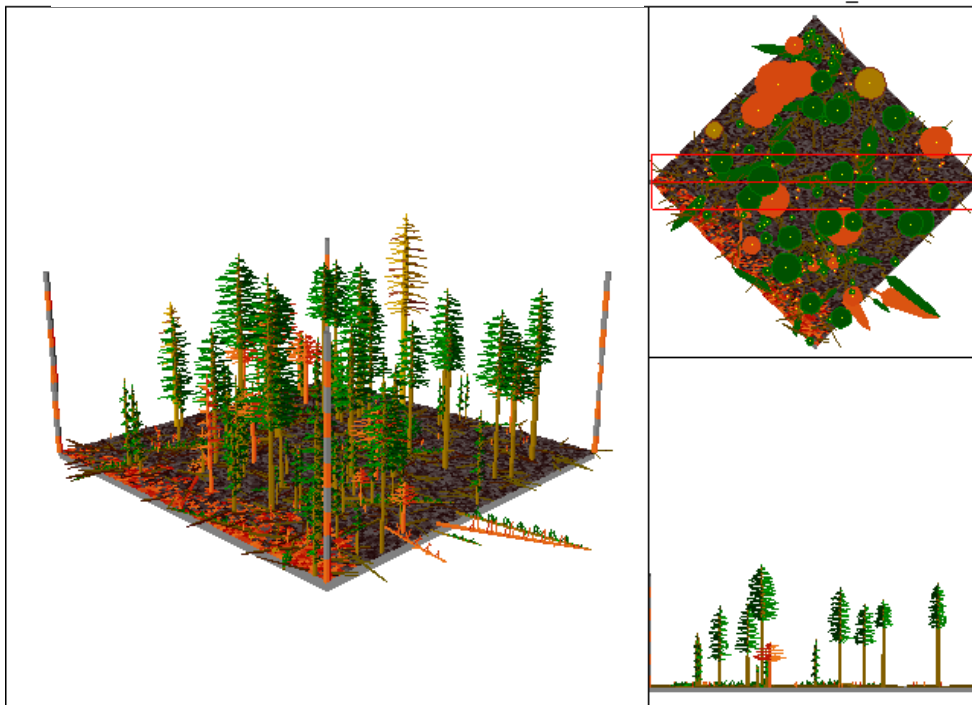
NewThinBBA75_086.svs



Stand 3 after burning piles. Conditions will allow for safe understory burning.

Stand=3 Year=2015 During fire

NewThinBBA75_085.svs



After treatment, stand conditions will reduce the risk of catastrophic fire.



Heart K Forest Health



Photo by Darrel Jury

Ben Cunningham in stand #2 as it appears today.



Image by Chris Bolton

Image illustrating the stand after hand-thinning of conifers less than 14" diameter.



Heart K Forest Health



FRLT photo

Eroding cut bank on Indian Creek.



FRLT photo

Photo taken in 2009 showing same location after 2007 willow planting.

Chicago Title
43701945

RECORDING REQUESTED BY:

STATE OF CALIFORNIA AND

FIRST AMERICAN TITLE COMPANY
NCS-456186

WHEN RECORDED MAIL TO:

The Nature Conservancy
Attn: Legal Department
201 Mission Street 4th Floor
San Francisco, CA 94105

2011-0003036

Recorded	REC FEE	15
Official Records		
County of		
Plumas		
KATHY WILLIAMS		
Clerk-Recorder		
10:10AM 26-May-2011	MR	Page 1 of 4

Space above this line for Recorders Use

Quitclaim Deed

This document is exempt from Transfer Tax R&T 11922

This document is exempt from recording fees pursuant to
Sections 6103 and 27383 of California Government Code

**THIS PAGE IS TO PROVIDE ADEQUATE SPACE FOR RECORDING
INFORMATION PURSUANT TO GOVT. CODE 27361.6**

RECORDING REQUESTED BY, AND
WHEN RECORDED, PLEASE MAIL TO:

The Nature Conservancy
Attn: Legal Department
201 Mission Street, 4th Floor
San Francisco, CA 94105

Space above for Recorder's Use

QUITCLAIM DEED

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, THE NATURE CONSERVANCY, a District of Columbia non-profit corporation ("Grantor") does hereby REMISE, RELEASE AND QUITCLAIM to THE FEATHER RIVER LAND TRUST, a California nonprofit public benefit corporation ("Grantee"), all of Grantor's right, title, and interest in that certain real property located in Plumas County, California, as more particularly described in EXHIBIT A attached hereto and incorporated herein.

This Quitclaim only pertains to that certain Memorandum recorded December 27, 2006 as document number 2006-0011442

GRANTOR:

THE NATURE CONSERVANCY, a
District of Columbia non-profit corporation

By: George W. Vandell III
George W. Vandell III, Director of Real Estate

Date: February 15, 2011

State of California
County of San Francisco

On February 15, 2011 before me, M. Inama, Notary Public,
personally appeared George W. Vandell III,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same
in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

M. Inama

(Seal)

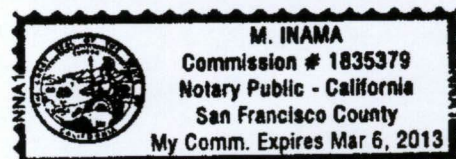


EXHIBIT A TO QUITCLAIM DEED

LEGAL DESCRIPTION OF THE PROPERTY

All that land situate in the State of California, County of Plumas, in an unincorporated area, more particularly described as follows:

PARCEL ONE

**PARCEL 6 (A PORTION OF BOOK 2 OF PATENTS PAGE 165):
A PORTION OF SECTIONS 2 AND 11, TOWNSHIP 25 NORTH, RANGE 11 EAST, M.D.M. AND
MORE PARTICULARLY DESCRIBED AS FOLLOWS:**

**THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF SECTION 2 AND THE NORTH ½ OF THE
NORTHEAST ¼ AND THE NORTHEAST ¼ OF THE NORTHWEST ¼ OF SAID SECTION 11.**

EXCEPTING THEREFROM THE FOLLOWING DESCRIBED PARCEL:

**BEGINNING AT THE NORTHWEST CORNER OF THE SOUTHWEST ¼ OF THE SOUTHEAST ¼
OF SAID SECTION 2, AND RUNNING THENCE SOUTH 462.00 FEET; THENCE EAST 282.84 FEET;
THENCE NORTH 462.00 FEET; THENCE WEST 282.84 FEET TO THE PLACE OF BEGINNING.**

APN 008-160-022

PARCEL 2

**THE NORTHEAST ¼ OF THE SOUTHEAST ¼ OF SECTION 36, TOWNSHIP 26 NORTH, RANGE 11
EAST, M.D.M. SAVING AND EXCEPTING THEREFROM THE FOLLOWING:**

**BEGINNING AT THE POINT OF INTERSECTION OF THE EASTERLY BOUNDARY LINE OF THE
SAID SECTION 36 WITH THE NORTHERLY BOUNDARY LINE OF THE INDIAN CREEK ROAD;
RUNNING THENCE NORTH ALONG SAID EASTERLY BOUNDARY LINE 624 FEET; THENCE
WEST 208 FEET; THENCE SOUTH TO THE NORTHERLY BOUNDARY LINE OF SAID INDIAN
CREEK ROAD; THENCE NORTHEASTERLY ALONG SAID NORTHERLY BOUNDARY LINE TO
THE POINT OF BEGINNING.**

APN 008-160-004

PARCEL 3 (ALL OF BOOK 2 OF PATENTS PAGE 98)

**A PORTION OF THE WEST ½ OF SECTION 1, TOWNSHIP 25 NORTH, RANGE 11 EAST, M.D.M.
AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:**

**THE SOUTH ½ OF THE SOUTHWEST ¼ AND THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF
SECTION 1.**

APN 008-160-019

PARCEL 4 (ALL OF BOOK 10 OF PATENTS PAGE 120)

**A PORTION OF THE NORTH ½ OF SECTION 12, TOWNSHIP 25 NORTH, RANGE 11 EAST, M.D.M.
AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:**

THE NORTH ½ OF THE NORTHWEST ¼ OF SECTION 12.

APN 008-160-020

PARCEL A:

PARCEL 1 (A PORTION OF BOOK 1 OF PATENTS PAGE 711)

**A PORTION OF THE SOUTH ½ OF SECTION 36, TOWNSHIP 26 NORTH, RANGE 11 EAST, M.D.M.
AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:
THE SOUTH ½ OF THE SOUTHWEST ¼ AND THE WEST ½ OF THE SOUTHEAST ¼ OF SAID
SECTION 36.**

APN 008-160-017

PARCEL 2 (ALL OF BOOK 1 OF PATENTS PAGE 672)

**PORTIONS OF SECTION 1 AND SECTION 2, TOWNSHIP 25 NORTH, RANGE 11 EAST, M.D.M.
AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:
LOT 1 AND THE NORTHEAST ¼ OF THE SOUTHEAST ¼ OF SECTION 2, AND LOTS 3 AND 4 AND
THE NORTHWEST ¼ OF THE SOUTHWEST ¼ OF SECTION 1.**

APN 008-160-018

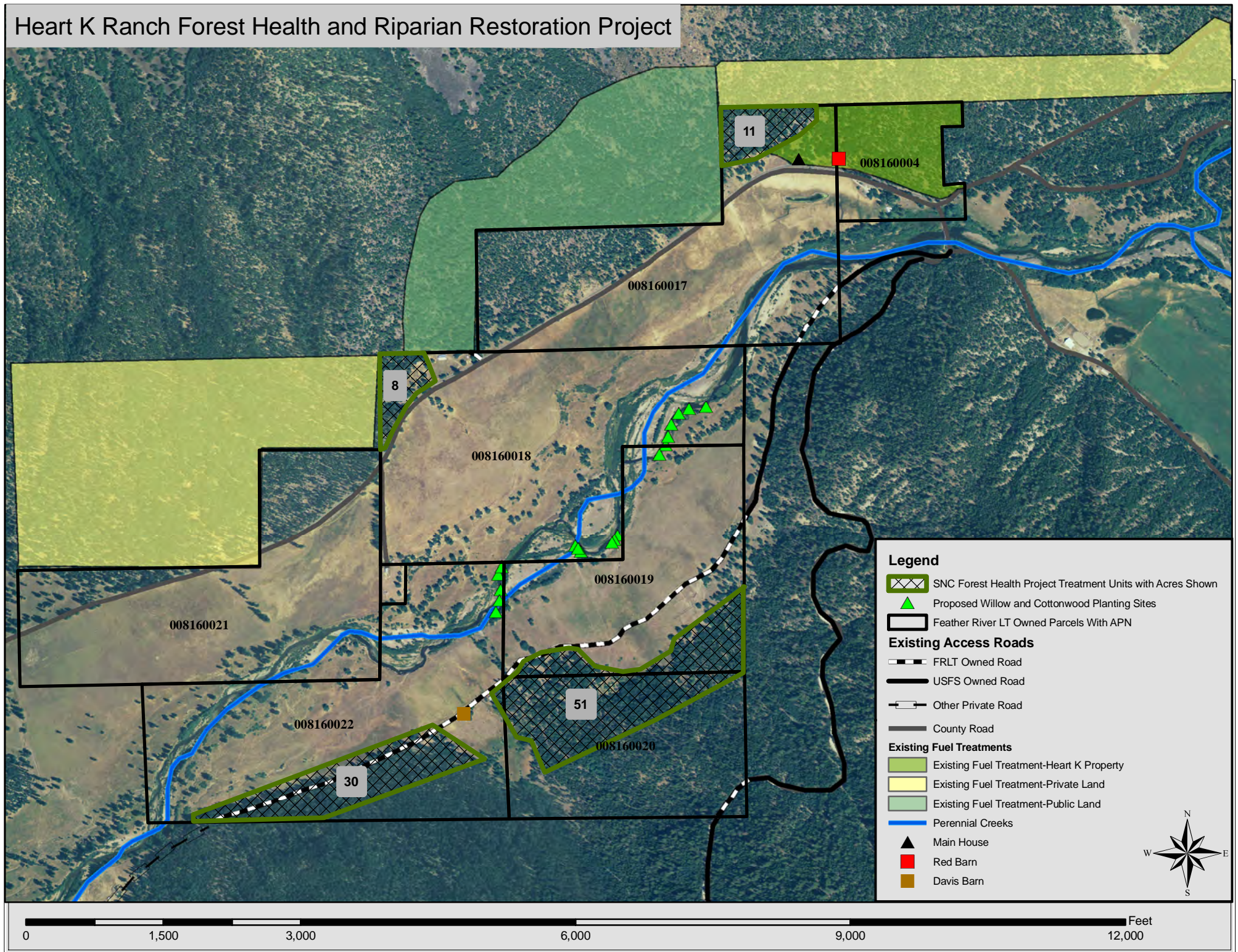
PARCEL B

PARCEL 5 (ALL OF BOOK 2 OF PATENTS PAGE 158)

**A PORTION OF THE SOUTH ½ OF SECTION 2, TOWNSHIP 25 NORTH, RANGE 11 EAST, M.D.M.
AND MORE PARTICULARLY DESCRIBED AS FOLLOWS: THE WEST ½ OF THE SOUTHEAST ¼
AND THE SOUTH ½ OF THE SOUTHWEST ¼ OF SAID SECTION 2.**

APN 008-160-021

Heart K Ranch Forest Health and Riparian Restoration Project





Heart K Forest Health

Leases and Agreements

Leases

Feather River Land Trust (FRLT) leases pastures on the Heart K Ranch for grazing operations. Proposed work associated with the Heart K Forest Health Project will not occur in these pastures. Because the project will not affect grazing operations the lease is not included in the full application. The grazing lease can be provided by FRLT if requested.

Agreements

Feather River Resource Conservation District (FR-RCD) and FRLT have signed a Memorandum of Understanding (MOU) that allows all work proposed in the Heart K Forest Health Project to be performed in cooperation. A copy of the MOU can be found on the following page.

MEMORANDUM OF UNDERSTANDING
between
FEATHER RIVER LAND TRUST
and
FEATHER RIVER RESOURCE CONSERVATION DISTRICT

Purpose:

The purpose of this Memorandum of Understanding (MOU) is to provide the foundation for a cooperative working relationship between the Feather River Land Trust (FRLT) and the Feather River Resource Conservation District (FR-RCD).

List of Commitments:

The FR-RCD is applying for funds through the Sierra Nevada Conservancy Healthy Forest Initiative (Prop 84) to improve forest and riparian health on the Heart K Ranch, owned and maintained by the FRLT. Upon successful award of said funds, the FRLT and FR-RCD agree to the following responsibilities:

1. The FR-RCD will be responsible for fiscal management of grant funds and insuring that progress and final reports are submitted to funding agency on time.
2. FRLT will agree to allow the FR-RCD to work with its designated representatives to ensure that the obligations of the awarded grant are carried out as written.
3. This MOU may be used for cooperative work on additional future projects approved by FRLT and the FR-RCD

Duration & Limits:

This MOU will be effective upon signatures of FRLT and FR-RCD representatives, and will remain in effect until December 31, 2014, unless terminated, extended, or renewed in writing.



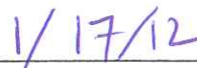
Phil Noia, President
Feather River RCD



Date



Paul Hardy, Executive Director
Feather River Land Trust



Date